2 3 4 5 6 7 6 9 10 11 CENTIMETERS



## 14:1

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### A SELECTIVE MICROFILM EDITION PART V (1911–1919)

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### Thomas A. Edison Papers at

Rutgers, The State University of New Jersey endorsed by National Historical Publications and Records Commission 18 June 1981

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EDISON GENERAL FILE SERIES

1916

### Edison General File Series 1916

| E-16-01<br>E-16-02<br>E-16-03<br>E-16-04<br>E-16-05<br>E-16-06<br>E-16-07<br>E-16-08<br>E-16-09<br>E-16-10 | Advertisting Advice Articles Autograph and Photograph Requests Automobile Aviation [not selected] Bates Numbering Machine [not selected] Battery, Storage - General Battery, Storage - Edison Storage Battery Company Birthday Greetings                                   |
|--|--|
| E-16-11<br>E-16-12<br>E-16-13<br>E-16-14<br>E-16-15<br>E-16-16<br>E-16-17<br>E-16-18<br>E-16-19<br>E-16-20 | Book and Journal Orders Business Propositions [not selected] Cement Cement House Charities and Loans Chemicals Christmas and New Year Greetings [not selected] Cigarettes [not selected] Cilubs and Societies Condensite Company of America                                |
| E-16-21<br>E-16-22<br>E-16-23<br>E-16-24<br>E-16-25<br>E-16-26<br>E-16-27<br>E-16-28<br>E-16-29<br>E-16-30 | Deafness E-2 Explosion Ediphone Edison, T. A. Edison Band Edison Chemical Works Edison Crushing Roll Company [not selected] Edison Portland Cement Company Edison Portland Cement Company Edison Portland Cement Company Edison Powerized Limestone Company [not selected] |

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         Electric Light
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         Employment
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Phonograph - Edison Phonograph Works [not selected]

Phonograph - General

E-16-64

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E-16-66 Pohatcong Railroad Company [not selected]

E-16-67 Politics

E-16-68 Port Huron

E-16-69 Proudfoot's Commercial Agency

E-16-70 Radio [not selected]

E-16-71 Real Estate

E-16-72 Religion and Spiritualism

E-16-73 Stock and Bond Offerings [not selected]
E-16-74 Submarines [not selected]

E-16-75 Telescribe [not selected]

E-16-76 Thomas A. Edison, Inc. - General

E-16-77 Thomas A. Edison, Inc. - Fire [not selected]

F-16-78 Visitors

E-16-79 Warren County Warehouse Company [not selected]

E-16-80 West Orange Laboratory

E-16-81 World War I E-16-82 X-Rays

:-16-82 X-Rays

### Edison General File Series 1916. Advertising (E-16-01)

This folder consists primarily of correspondence from advertising managers and publishers. Included are Items concerning advertising strategies, legislative matters, trademarks, Edison's opinions of specific magazines, and appointments with the inventor. Among the documents for 1916 is a clipping from Lesiles illustrated Weekly Newspaper announcing the celebration of Edison Week and describing a series of "tone tests," which featured recording artists alternating their live performance on a darkened stage with disc recordings.

Approximately 50 percent of the documents, including all letters bearing substantive marginalia by Edison, have been selected. The unselected material consists primarily of unsolicited correspondence that received a perfunctory response or no reply from Edison.

Con function

REPORTS ON FUNDAMENTAL BUSINESS CONSTITUTION

OWNERS OF FINANCIAL LISTANY OF NEW YORK

ECONOMIC ENGINEERS

BABSON'S STATISTICAL ORGANIZATION
INCORPORATE

ROGER W. BABSON, PRES.

ADDRESS REPLY TO WELLEGIET HILLS, MASS.
COMPILING OFFICES (SUBURS OF SOSTON)

April 1, 1916.

Thos. A. Edison's Library, Orange, N. J.

Gentlemen:

We wish to ascertain what magazines are most read by the more thoughtful business officials of the country, and feel that such data would be immensely valuable.

Experimental advertising is most expensive and we wish to help our clients, as well as ourselves, to reduce losses.

The Babson list of clients is of a very high grade. We believe that it would be a great help to many of our clients if they could know the class of magazine publications read most generally by our subscribers.

Therefore it will be very much appreciated if every one receiving this letter would check off on the enclosed post card the names of those magazines that they read most thoughtfully and receive regularly.

Just as soon as we obtain this information the results will be compiled. Those who wish to receive the final tabulation will please so note on the post card.

Thanking you again for the spirit of co-operation which we always receive, we remain,

Very truly yours,

Babson's Statistical Organization.

PFBryant BMG

### BIRCH-FIELD & COMPANY

WEST FORTIETH STREET NEW YORK

June 19th 1916.

er. Thomas A. Edison. Orange, H. J.

My Dear Mr. Edison:

You will remember a more or less) interesting conference at your home and a subsequent one in your office on the subject of adver-

fising. I have just stumbled across a proposition which will cost you nothing but which, if successful, will not you considerable money in your phonograph business.

This, if taken adventage of, should be handled at once.

I have also two other propositions which I am confident will interest you. These propositions are outside the field of magazine advertising of which we formerly spoke. However, I am certain all are based on fundamentals in the phonograph business. I wish to telk these over with you personally.

Although you are extremely busy at this time, vonture to guarantee in advance that the five or ten minutes required for an interview will be profitably spent by you.

Name over any hour of the twenty-four which you designete through your personal Secretary who has my telephone number and address.

With a keen appreciation of the courtesies extended by you to me in our last two interviews, I am.

Respectfully yours,

A.C.Barrell

NT



I should like nothing better than to work out some of these thoughts with you.

I have two advertisements in the rough, based on our recent conversation.

There is no doubt in my mind, but that you have built the finest phonograph in the world.

If your advertising were as good as your quality, your chief problem would be the problem of producing goods enough to supply the domand.

Mo essist me in working up a certain advertisement, will you be good enough to write me in a

few sentences, your personal opinion as to why Dismond Disc Phonographs are increasingly popular?

I think I know what you will say but I prefer to know it rather than think it.

Your enswer will be treated confidentially and the resulting Ad. will be shown only to you.

With a keen appreciation of your courtesy in connection with me insistent efforts to serve you. I remain.

Respectfully yours.

L.C.Barrell

A.S. LEPHONE



JAMES ALBERT WALES

### Wales Advertising Co. 125 East 23d Street, New York

REMOVED TO 110 WEST 40TH STREET

Personal
MR. THOMAS A. EDISON

MR. THOMAS Orange N. J. June 27 1 9 1 6

N. J. Dear Mr. Edison:

Enclosed is a reprist of a recent article in Printers' Ink, in which I wan very plat is have an apportunity of featuring the notable work you have been doing in the development of American Industrice to replace many products formerly imported. This reference to your work was perhaps not ther accurate nor complete, but it was propably as close to the mark as some others than they been published!

There was evidently no way to mention the Edison Storage Battery, which I regretted, as you know I am an enthusiast regarding the advertising of the Battery.

With kindest regards,

Very sincerely yours

De California Contra

### [ATTACHMENT/ENCLOSURE]

REPRINTED FROM Printers' Ini OF MAY 25, 1916

### Start Now to Offset War's End

By James Albert Wales Advertising Agent Makes an Anal-ysis of Present Prosperity and Finds Some Elements That War-rant Optimism— Belleves Adver-tising Will Be Strong Weapon if

### By James Albert Wales

By James Albert Wales

M'ny business men are saying that our present comparative prosperity is artificial
and temporary—that it must diminish at the end of the European war. This feeling seems to
especially prevalent amount
advertising
stituation thoroughly,
they might not be so pessimstie. Here is an attempt at such
analysis:

tie. Here is an attempt at such an attempt at such an attempt and the attempt at the such attempt at the attempt attem

and military equipment and sup-plies generally, for some years after the war, at home as well as abroad.

abroad.

But business as a whole had been expecting better times, war or no war. Prosperity was overdue. A better feeling of understanding among the three great factors—Government, corporations, and the public—was bringing renewed confidence to investors. The Federal Reserve renewed communes to the vestors. The Federal Reserve Act helped, Increased credit was about to become available to develop undersold markets. Greater efficiency in design and manufacture of factory equipment and

finished product was proving the economy of scrapping out-of-date equipment and supplies and repulse the supplies of the suppl

same time—a most desirable retiffe last-mentioned factor
seems to have been overlooked
by the various commendator
by the various commendator
our present prosperity, but it is
retifently one that will increase
in a prosperity to the control of the control
arging of conviction to manufacturer and consumer upon the
is a message that will be borne
in more and more channels, with
reaches.

meretaining proint to everyone.

Thus we find that three factors entirely independent of the untable enter in motion that must continue to help American business, regardless of the war's end part of investors, wider credit for business enterprises, and the increasing production of modern money-aving equipment and supplies to supplant former wastell practice.

PROSPERTY PACTORS DUE TO WAR

Agent from the shore portly Agent from the shore portly Agent from the shore portly directly to the say, but of never heart present and the shore portly directly to the say, but of never shore present the say of the say

PRINTERS' INK

SO MAN.

The way to shortle where along with the wind the way with the demond from the way with the demond from the way with the demond from the way will be well as the way will be will be way willo

W. A. Somerville With Re-

nublic Motor Co. W. A. Somerville, formerly advertising manager of the Rapid Motor Truck Ca., of Ponline, and later of the Stremberg Meter Devices Co., of Chicago, has been appointed advertising manager of the Republic Motor Truck Company, at Alma, Mich.

Transferred from Chicago to New York

Hareld G. Schryver has been trans-ferred from the Chicago to the New York effice of Cone, Loronsen & Wood-man, publishers' representatives. He has been a solicitor for the Chicago office for the York.

we shall then readily relinquish our "advanced positions"? Another favorable factor due to the war is the more intensive and profitable development of home markets. Books could be written about the discoveries made by manufacturers who have at lost given more nearly adequate attention to the market at their very doors. New wants

made by monther there with a continuous continuous continuous to the earliest and the continuous co

deserve to rank with the preceding six.

In the proceding six of the proceding six of the proper six of the proceding six of the proced

Manufacturers now oversold

Moanoke, Ba.,

Thomas A. Fdison,

Aug 4th. 1916

my dear ir. Edison.

Longer ago than I care to remember I worked with you from chattanooga when you were in Hemphia an an operator I now want to ank from you or your necretary a little information. Who has the placing of the advertising for the wdinon company.

I am mailing you under a peparate cover a copy of this newspaper which though scarcely a year old has a circulation of more than 60,000 among railroad men of all departments, industrial organizations and the coal operations of the southwest.

I believe it to be a desirable medium with its low rates and would appreciate if you would put me in touch with the agency handling your advertiging.

august 18th. 1916.

Mr. W. O. Liscomb, Managing aditor, The indirector, Resnote, Va.

Doar Sir:

Your favor of the 4th instant addressed to M. Sciench has been received. You state therein that you are conting under coparate cover a copy of your paper. So for this paper has not yet been received by us. It has probably been look in the mails.

Yours very truly.
Edison Laboratory.

JAMES E. MARTINE.
CHAIRMAN
E. JOSEPH ARONOFF.
PRIVATE SCCREARE
JOSEPH SCHLAVONE.
ASSISTANT SECRETARAN

100 1

### Mrifed States Serate

Soptember 18, 1916

he entereds to give his support

Dear Friend:

On account of your expressed interest in the

subject I am onelesing herewith copy of a letter which I have just sont to ar. Charles Helshauer, of Hemark, New Jersey; stating my intention to support the Stephena-Asherst Silh-"to protect the public against dishonest advertising and false pretonses in marchandising".

Sincerely yours,

JEM/S.

Hon James Marting

JAMES E, HARTINE, JOSEPH SCHLAVONE.

### Alnited States Senate COMMITTEE ON INDUSTRIAL EXPOSITIONS

WASHINGTON, D. C.

September 7th. 1916.

Mr. Charles Holzhauer, Broad & Market Sts., Newark, N. J.

Dear Mr. Holzhauer:-

I have had no opportunity until recently to give consideration to the questions involved in the legislation which has been pending in this Congress known as the Stephens-Ashurst Honest Advertising Bill.

I am constantly receiving inquiries from all parts of the State as to my attitude towards this measure from men of the State as to my attitude towards this measure from men who I know, like yourself, are doing business successfully along legitimate lines. It may, therefore, please you to learn that after full consideration I believe it to be a measure of sound public policy which I shall be glad to support when it comes before the Senate.

As I understand the Bill, it is intended to prevent cut-throat competition which leads to monopoly and the elimination of the independent retailer. In that respect it seems to me it will further properly supplement the Sherman Anti-Trust law.

I am frank to say that I have been considerably influenced in my decision regarding this legislation by the argument which Mr. Justice Brandels made in its behalf before the committee of the last Congress. In fact, I do not see how any fair-minded man who realizes the abuses prevalent in the distrifair-ainded who was remixes the access prevalent in the distribution of merchandies boats on a fiver reading justice Brandeis' may previously have been by superficial aspects and clever arguments of the Bill's opponents. It seems to me a measure which is directly in the public interest and which should be supported by all who believe in honest trading.

Sincerely yours.

### The New York Evening Post

m mascwell

Thomas A. Pifson Orange . N. J.

Desr Sir :

Eve Post has highest choices Charles of cary leve, people of the sporthwisk

The enclosed advertise out which are eared in healte's Totally has made guite on impression upon as from an advertising strangeint.

As this is a very important week at the Electrical Show in the Grand Central Polace, I wish to effer a suggestion that you allow us to run this advertisement in The New York Evening Post one day before the closing ante of this slow - October Slat.

It is needless for me to go into any detail with you rejacing The New York Evening Post. You are well sware of its policy and the class of advertising it carries.

We have been unsuccessful in the past in dealin the past handlessed in the past handling with part advertising manager respecting running copy of this character in The New York Evening Post, and therefore we are colleged to call the matter to your personal attention.

For the past year the Viotor Talking Machine Combury those has adjust the distinction of being presented to our cathers. This hit has good without think you will agree with a beautiful think you will agree with as that in justice to courself and your gradues that the columns of Talking Post should be used for your advertisaing.

I trust you will favor us with an order for the insertion of the enclosed copy.

Very truly yours,

haa-1

Advertising Manager

In the United States alone, the industries founded by Thomas A. Edison give employment to six hundred thousand human beings. Edison Week is observed every year by a group of these industries in \$\bar{1}6\$ th \$\tau\$ 21st

October



### The New Edison

F the various arts and sciences, Mr. Edison takes the greatest interest in the recording and reproduction of sound-Unquestionably, of all his numerous inventions, the New Edison, the instrument of Music's Re-Creation, is his favorite. It marks the goal of his ambition to record and reproduce all forms of music with such utter perfection that the reproduction can not be distinguished from the original music.

Mr. Edison has perfected this new instrument for the reproduction of music, and recently submitted it to comparison with the voices of such great artists as Marie Rappold, Anna Case and Arthur Middleton of the Metropolitan Opera Company, Thomas Chalmers of the Boston Opera Company, Alice Verlet of the Paris Opera, Christine Miller, Elizabeth Spencer and Marie Kniser, the great concert singers.

Remember, these great artists stood beside the New Edison in Carnegie Hall, New York, Symphony Hall, Boston, the Astor Gallery, and other shrines of music. They sang in direct comparison with Edison's reproduction of their voices. More than 200,000 music lovers attended these demonstrations and were unable to distinguish the original from the reproduction. The music critics of more than two hundred of America's leading newspapers admitted that they were unable to detect the slightest difference, To differentiate this new instrument from ordinary talking machines, the critics coined a new expression-Music's Re-Création.

These astounding tests have proved conclusively to music critics everywhere that the New Edison is incomparably superior to any and all other devices for the reproduction of sound. We have the verdict of the American press and American music critics. We now want the verdict of the American people,

### Bringing it home to you—\$1,000 in Prizes

And 10 cents a word for your opinion, as explained below

'N every locality there is a merchant licensed by Mr. Edison to demonstrate and sell the New Edison. These merchants have set aside a limited number of specially tested instruments which will be sent on absolutely free trial to the homes of responsible people during Edison Week triat to the nomes of responsible proper before the fining Musick Re-Creation into your home. Keep the instrument for three days during Edison Week. Let your family form its opinion. Then put that opinion into words. The music critics have told in their language why the New Edison is infinitely superior, from their standp any and all talking machines. We want you to tell us in your language why the New Edison is more valuable and desirable in the American home than any talking machine. We want you to tell us why it is superior as an entertainer and as a means of developing real culture and musical appreciation on the part of your family. We already have a booklet that contains the opinions of leading American music critics. This booklet tells the technical and arristle and this is what we are willing to pay for your opinion:

\$500 for the Best Opinion \$200 for the Second Best Opinion \$100 for the Third Best Opinion

Ten cents per word for opinions which do not win prizes, but which we decide are worthy of publica-tion. No opinion to be more than 200 words in length The Contest Closes October 28, 1916

The Conditions are perfectly simple A THE CONTINUED REPORTED SHIPPE GO to an Bidson desiret at ones and apply to him for a three days Irrae IrIaI of the New Will give a pos-thank containing all of the conditions. Let us make pilal that you assume no obligation to perchase the internment place of your assume no obligation to perchase the internment place of your assume no obligation to perchase the internment place of your assume no obligation to perchase the internment place of your assume no obligation to perchase the internment place you assume no obligation to perchase the internment place of your assume no obligation to perchase the internment place of your assume no obligation of the internment place of the internment place your assume no obligation of the internment place of the i

your home.

Professional writers and phonograph trade are barred.
You don't have to be a trained writer to win a prize.
Ideas are what count. You can make grammatical errors

and misspell words and it will not count against you. The New Edition sizes deep feelings in music lowers roots. We want your feelings expressed freely in your own works. Don't walt. Act quickly. Remember the number of the property of the property of the property of the property to too late to have an instrument placed in your forest, three is a consolation context open to you for the best opin-tons based on merely busing the New Youldon's in Edition in chairly a word of the property of the property of the \$125 First \$59 Second \$25 Thind until the Con-True Centers (foots October 23, 1916)

The Contest Closes October 28, 1916

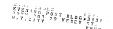
The dealer will explain everything to you. Go to his store this very day. Owners of the New Edison may compute. Go to your dealer and get an entry blank.

Let us help you win a Prize Write to us at once and we shall gladly send you these helps: The brochures "Music's Re-Creation", "The Music Master's Conversion" and "What The Critics Thin!

THOMAS A. EDISON, INC. Denterment 2417

[ATTACHMENT/ENCLOSURE]

### esle S Illustrated Weekly Newspaper Established in 1855





Mr. Edison:

Referring to the attached letter from the Advertising Manager of the New York Evening Post, there is no question that the Post has the highest class circulation of any paper in New York City, and if I were in George Babson's place I should take an occasional advertisement in it. I presume that his reason for not doing so is because the rate is popularly supposed to be out of proportion to the size of the circulation.

I don't think that we, as a Company, should take any advertising in the New York Evening Post or any other newspaper at the present time. The minute we advertise in one newspaper all the other newspapers, not alone in New York City but the country at large, will be after us - also our dealers of

At the present time we are getting more advertising for the money spent than I ever saw any other manufacturer get. Our dealers are convinced that we are not going to spend any money in newspapers at present, and most of them are reconciled to that fact. Accordingly they are going ahead and spending their own money. Even through the summer months when most dealers quit advertising, there were several hundred who kept plugging away using the interlocking copy which we furnished them. I believe that from now until next spring at least one half of our dealers will advertise in the newspapers consistently. In my opinion we cannot afford to disturb the present situation by doing any newspaper advertising over our own name.

With special reference to the New York Evening Post we can recommend to George Babson that he take some space in it. or we might go into an arrangement with Charles Edison to pay part or all of the cost of some ads in the New York Evening Post to be run over his name.

Mecacocnoft wants Port many that we dio Lub nycetu

Mr Thomas A Edison Orange New Jersey.

Dear sir: I am sending you under seperate cover an enlarged, hand colored, framed picture of the Panama Pacific Exposition at San Francisco, by daylight and by electric light both pictures are in the same frame and were taken by myself in March of 1915, while I was visiting the Fair, the the original photo being the same size as the one enclosed herewith. The reason I am sending the pictures, is, that some two weeks ago it

came to me in a dream that you were looking for a new trade mark for the products of the Edison factories, you wanted a design which would be ornamental as well as suggestive of what the name Edison represents, (that is the brightest light in the Electrical world) you had begun to feel that your signature was too plain, you wanted to brighten it up, so that the purchasing public would take notice, not because the light of Edison inven tive genius had lost any of its brightness only you felt that it needed lighting up, so when I awoke and the dream came to my active senses the small photo I am enclosing herewith came to my mind and I decided to enlar ge, # color, and frame it, and send it to you so that it may adorn the walls

of your laboratory or your home as you see fit.

The small photo enclosed herewith you may use to secure the reproducts ion, from which plateyou can occure the electrotypes, for the coloured lithographed design and future trademark for all the Edison products, you will readily understand what a trademark like this will do toward creating a demand for the articles it is placed upon, for thousands of people saw the lighting effects at the Exposition yet thy have not a picture to bring its beauty back to memory, thousands of people have talking machines Edison lights, and other conveniences of Edison manufacture which bring to memory the days when there was not those things, days when the adison light was just beginning to break thro the clouds, and now that, thet, light has fully manifested itself why not brighten it up by writing your signature across the lights in the cloud in the picture, then, reproduce it bring it out in colors and you will find that the selling power of Edison products will recieve a great impotus, for those who buy will know when they see this trademark that the product is of the Edison highest standard of Quality, it will have the same effect as the insignia of th Rice Lead ers of the World has, on the goods it is placed upon,

If my dream tomes true and you find this design acceptable and I feel sure that you will, as a componention for the use of it for you may send me one of those Edison Diamond point reproducer(cabinet type Idisc Talking Machines, I have had a desire to own one of those machines for a long time, and a design like this ought to be worth this much to anyone and if you feel that it is of any greater value to you as an advertising medium, a draft will find me thro the Union Savings and Trust Co.my bank

here in Seattle.

This will reach you in time so that you can place the new design on the Christmas records and give the people an Exposition Edison light surprise, so thanking you to accept the enlarged photo with my compliments, I am,

Respectfully yours Mu Edison. The search from 8 roph marchell server of the #22 605 Yesler Way

· ein

Seattle

### [ATTACHMENT/ENCLOSURE (PHOTOCOPY)]



December 4, 1916.

Mr. Herry E. Henson, 601 Yeslor Way, Loattle, Wash.

Doar Sir:-

Your favor of the 20th ultim to Mr. Edison was received and brought before him for his consideration.

He requests me to may that white he greatly expective your courtesy in offering him the use of your picture as an advertising trade-park, he cannot use of his may clear to make use of it. In the first place, our present trade-mark has been exhaultance for a great many years and it would be insafeled to change it at this late date. In the account picture you have himly offered would have no reference for application to phonographs.

in. Edison where no to extend his tenner to you for your courtesy in conding him the calarged color picture, which will be hung in the Laboratory.

Yours very truly,

Assistant to Mr. adison.

### Edison General File Series 1916. Advice (E-16-02)

This folder contains correspondence from inventors and others asking for Edison's advice on technical matters or his assistance in improving or promoting inventions. Included is a draft response in Edison's hand concerning the use of respirators by workers in his factories. Also included are references to the Neval Consulting Board and letters about war-related inventions similar to the unsolicited correspondence in the Naval Consulting Board and Related Wartime Research Papers, Special Collections Series. The correspondents include Charles E. Adams, director of the Hector Observatory in New Zealand.

Less than 5 percent of the documents, including all items bearing substantive marginalia by Edison, have been selected.

of The board, appointed by government for the betterment of the navy I have a troposition to spermit To you That if it is a success will to Juite a factor in The Juneral clan of preparduces. It is are areae meachine fur does not use be ones or for to treep it such ended. The motor is an light Cyl. operared Type of 180 top. A.l. and rating and will develop 218 h.b. and will wigh about 275# when fuisteed It is of varable speed and can be full almost slive our an offect and at any altitude

and can be curred on ils oun avis 2 Munity The April Care to Faire from Fin miles der tions To one trundred mi. I ties may look in reasonable to you but is it any more so Thank The Telaphone, Wineces, or The Thomograph I can build the mactime for 600.00 as I can do all the world my suf bed. Can not buy I'm lathe and motor To our it. my prosocition to weller st four to The Extent of financing The dola and if it works and can be fat. To give four a half into in the pate Digtil. Just Think back to The Time when you was bying to perfect your own Agnething of what I would do it a trad, The money. The machine can be stond in a space four ft. Square and the fe long

il ( does not reed a run way. To raise it in The air and can lean or land on The deely of a ship in any thing store of a The machine and a more to therate it will weigh about 500 and & nais 800 + lifting fours Lieuxe advige me as to what Jon Think of The proposition and I will send you blue frice of the Culire mactine yours rispectfully BAT HELILLE 515 Garfield Ave Belle fortaine Chilo.

### MC-MAN OIL COMPANY

TULSA OKLAHOMA.

HEALDTON POOL

Wirt, Oklahoma. 1/19/1916.

Mr. Thomas A. Edison, W

There is a concern in hyork who have a primarian that is being

Dear Sir;-

ar company is a producer of crude off, and we are company is a producer of crude off, and we will be steel of

store large quantities of this oil in steel tanks, when the market is low, and there is a vertice the tanks, when the this oil from the fact that the escaping gas is often ignited by lightning and the tank and all its contents are a complete loss.

These tanks hold 55,000 barrals of the crude oil, hence you can see the immense loss, either to ourselves, or the insurance Co. We are now carrying this risk and have no insurance on most of the oil.

Could you devise some means whereby this loss could be lessened; if so you would have done a great thing for the oil industry of the world?

If you care to go into the matter further, I shall be glad to give you any data that I can procure from the field.

Thanking you for any attention given this matter,

I am, Very truly,

Mc-Man Oil CO. By Supt. Healdon.

(6783)

Amsterdam. 20 Jesmani 1916. Elhnisch. Buren Edison U. J. Amerika: Tellend. Gestrongen neer Geleerde Heer! - Elighens sen verslag in een een Hollandsche stag bladen, las ih; about West heeft subgrounden hat French. Saw ik; ondergebelande ruim ?: Josen ben werkenam giweest; am de Chimische Tarbenfabricken van "Friedrich Bager" in Co'd te Leverhusen: Deutschland. " Speciast" belast met het maken van Roh. Phenol ist Rhein Phenol, in momented in start ben Roh. Phenol be kunnen Laboriceoun ± 6000 hiter per day. You is onign vriendelijk versoch eventu eel mijne stionshen van be bieden. Indien but Wed yours by somehout , 300 ben it bereid, de Schekotickeningen van het be. mornigae, appround "ter Vener beschikking be stellen Het zal mogelyk What yundig voorker. men be melden, abodat it, in staat bon per dag to leveren 3300 Liter Rhein Phenol

reit

wit 6000 Riter Bon & hend; west by oncer vinding black seen voldrende to 3 ijn. . Not brountgehalte van het gefabricere Phein Phinol, bracht it door mign Javen langer ondervinding lot 40, 6% met, -"renkeloone" withoust, het welk het negatie we resultant may see verwachingen over trot, en may nimend ber would healt kun nin namiken; andanted het bijkomende; That 3st my when sunginam kin van What he reminen of It beried is virte met my over gonormale in Contact be willen trider, in ben besied voor able noodige gage vent mine fuscinentomet be vericinen; des noods of " Vive entroodiging" naar Amerika be komen. Jaarne this is per orngande van Hed een gunsky untwood beginned, in hel door stere de ser le rign L. E. Exers! v. d. Hoopstrant Nº 3.

Amsterdum.

The writer, a Thollounder, not knowing the English language, how been employed at the Oramical Dye Works Thed Bayer + Co at Lovenkusen, Gamany , where he had whorgs of converting Raw - Thenot into Pure Thenot 6000 liters (ca 1500 yallons) were made por day If you wish , he will put the drawings of the necessary apparatuses at your disposal You might eithe To hear, That he is able to produce on \$50 guinnes of pure thend from 1500 gall of crude Thouse, which seems to be very satisfactory. Claims, that by his experience of many years, he succeeded in obtaining a net percentaje of 40,6. Wooded like to hear from you, if you are willing To Treat with him. Would come to Somerina To treat norm of T. H. J. Jeers opposite at 100 per treat 100

Koliand

Symsterdam

no ans

am not interested with Cotton-The Dupont Pawder Co Dear Sis writing this letter Lear & Trembling, Renowing your Itation in life So high in the Eyes of the world & Id So humble & Poor that I am fearful of a reply tout I will Sce · Mu Edison I hink I have discovered a material that is far Superion to make gun cotton on will Take the hluce of generation and it is plentifule Teasily gotten the Liber is very sine & soft that you can throw a lighted math In it out wont Burn but bust take a ball of it the sine a walnut Saturate with coal oil Tit will teun like howder Sitteen minutes It is a gleat absorbant will take anew limber I can Send you Some with seeds in & Some

Send the stuff just as It grows afe note the filters that surpends them to the the the gre about up sinches long very strong about gor tim threads the Eurnel is any much fixe corre light only very compact, I want Nov thito Ste T Gramline each Tall Sparts for me as you are in a position to do it or what Ever proffit there is in it we will Dire Tagnately dont think this some cranks writing but I am in carnest & must hat this Sind to proffel knowing you to treat, will that me fact Of will Just as soon as you answer this send Sample in pargel But I will Send Stamp Expecting a riply by sturn mail and I whink we will both be greatly lienefited Linancially fal was used in Bible times for this is where I got the adeas

LAW OFFICES DUDLEY AND GRAY

Mew Jersey.

My dear Mr. Edison:-

You will recent me as being the

green-horn fisherman who caught the first tarpon at Fort Myers some years ago, when, through the kind suggestions of yourself Hrs. Dudley and I were pursueded to go to Port Hyers for a short Winter vacation. Me (decen) Mrs. Dudley and I both recall with much pleasure the Copenia Seculary, onjoyable and interesting days spent at Fort Myers mode so to a largedagree by the kindness of Mrs. Edison and yourself.

reports of then on As you will recollect I was one of / o a

Kirter, he

Longs History

the directors of the Hiegara Fells Power Company at Mangle of the time you gave us valuable assistance in connection ( ) ( ) with the electrical development here and I am atill " color colo largely interested in power and reilroad matters in straight or world of these. The is Survey Western New York. in the best Banks, as

The matter of additional power devolopment has received considerable attention of late the franches , first, to a changed sentiment on we come and owing primorily the part of the public and, second, to the fact that the Canadian Government contemplates another large

development on the Consider side. While I know much of the following information is within your personal knowledge, I take the liberty of celling your attention to the following:

The waters flowing over the Pells are compuble of developing in excess of 5,000,000 horsepower; approximately 500,000 horsepower is now being developed, which uses about one-tenth of the available water. As an economical proposition, and having in mind the ultimate benefit to mankind, there can be no argument, of course, in fever of permitting of such a gigentic waste of energy which sould be devoted to industrial development. In any event, the taking of an additional quantity of water sufficient for the development of 500,000 electrical horsepower would make no appreciable difference in the scenic features of the Pells of Hingare, conditioned of course on the proper distribution of the flow of water being made above the Pells.

The present treaty between the United States and Great Britain relating to boundary waters, permits of the taking of 20,000 ombic feet from the American side, although but 15,600 ombic feet are now being taken. This treaty was made on the 11th day of January, 1909 for five years, and continues until terminated by twelve menths notice by either of the contracting parties.

We must recognize a sentiment throughout the United States against the doing of anything which would work a destruction of the scenic features of the Fells.

My plan, contemplated, briefly, the securing of the right to take sufficient water from the Americen side to develop on additional 500,000 electrical horsepower, taking the water from the Niegara River in the vicinity of Lo Salle, which is approximately six miles up the River from the Falls, and senveying it to the Niggara Esparpement near Tewiston, a distance of about seven miles, where a fall is obtained of approximately 300 feet, and thence discharging the water into the lower Niagara River, so-called, below the Escarpment, an additional distance of a little over a mile. and in so doing construct a ship conel, of sufficient depth and width to handle any vessel which may traverse the Great Lakes, utilizing the lower Misgara River as an outlet. We are now dependent upon the Welland Consl. which extends from Port Colburno on Lake Erie to Port Delhousie on Lake Ontario, across the whole upper peninsula of Canada, a very great distance, with numerous looks, the Welland Canel being entirely on foreign soil. We would have a ship canel but shout eight miles in length, and the looks would be so arranged that the looking sould be son in succession. The time in pessing from Lake Eric to Lake Ontario would be about one-fourth of that now sonsumed by the Welland Conal route. The proposed conal would be entirely in our own sountry, the importance of which to our sommerce needs no argument.

This sensel I would propose to build and give to the government, in someideration of their greating us aufficient water to develop 500,000 horsepower. The govorment, of source, subsequently to maintein and operate the concl.

In addition thereto, and perhaps the most important to the government and to our people, is the fact that we would have electrical energy available, in case of war, for the manufacture of muntions sufficient to make us independent of mineral nitrates obtained from foreign countries. Of sourse you resognize modern explosives are practically all nitre compounds, and that the great supply of nitrates in the past have been obtained from Chili in the form of nitrate of sods. Cormony recognized the importance of manufacturing nitrate from air by virtue of power development many years ago, and the work has so been completely carried out that

Germany in now able, through her electrical power development to fix nitrogen economically sufficient to produce her own explosives, and were this not the fast and she were dependent on Chili malt petre or nitrate of sods, she would have been out of the running long before this.

With this coronous power development perfected and available in the menufacture of munitions,
it would take less than six menths to convert all of this
electrical energy into active agencies in the menufacture of nitrates, and give to us nitrate supply
which would be sufficient to furnish us munitions of
wer to the full extent of the tremendous demands which
the next wer will force upon us. Purther, this losetion will be so far removed from the scaboard that it
would be easy to project it against all sorts of attooks.

Ey association with the clostrical power development in this locality has presented to me an opportunity to give this whole subject a rather broad study, and I have had the adventage of a great deal of technical knowledge of perhaps the best clostro chemical experts in our country, and, with the government's essistance and cooperation, without costing the government any money, they would be able to secure.

First:- A ship concl on our own territory which would greatly facilitate and increase our internal and international commerce.

Second:-dive our country in time of pecces a tremendous industrial development which would be felt the world over, with an additional 500,000 electrical horsepower available for manufacturing and transportation purposes. Portions of this power, until greater demands exist therefor, sould be utilized in the manufacture of phosphates in the making more valuable our lends in the South;

Third:- Electrical energy available in times of war to afford a sure and sufficient supply of nitro compounds to commisciture all of the munitions of mer, without depending on foreign nitrates, or on sporadic and widely separated power plants, where difficulties of protection and transportation would have to be over-come.

In my study and development of this matter I have given full weight to opposing rublic sentiment, and I am satisfied that any American with a reasonable affection for his country and a desire for its advancement and protection, will not heatate, under the circumstances, to secrifice a little of his seathetic foolings for the great benefit and protection which would

accrue to the whole country.

you in due course.

Another thought which I have confidence will oppeal to you is the barge canal will soon be completed and it occurs to me the most presticable method of propulsion of canal boats is by storage battery, each boat being thus solf-contained, so far as relates to power permitting of the barges going directly through to New York.

The State possesses the right of way for a transmission line and emitable storages between Albeny and Hew York could be located for storage purposes. Of course, the ship cenal is not a necessity to the power proposition but it is an important incident and perhaps a controlling one to the accomplishment of the concern ulam indicated.

general plan indicated.

I think it hardly nonessary to more than state here that the market for power will be sufficient to justify a satisfactory return on the monies invested.

While I would have nonsiderable influence in the way of securing financial support to this proposition, I feel a great desire before seriously going ahead to have your approval and if the matter seems practicable ultimately to have your no-operation and participation in the result and would be gled to heer from

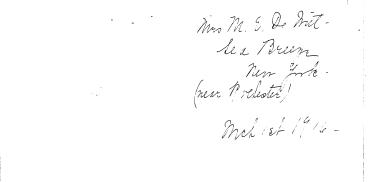
#8.

With kindost personal regards, I am, Yours truly,

4. Chemists aus now Fear Sur us of any chemist mit a knowledge of hiruins from furtilizing into dues 2 The water Con-Cario Paris Ereen Suffly and line -

mie put m much min disapherren - probable a Kar Hochitetter não returning the l'action. land to fight or & com Each is morning for for is property were -Clauria to Than Eine Trike Fruid to a ind deal of more The Same product hurued nito diges from in the busiless, fortam with different ration Chemist who had the in cerciani. Ind-Easil knowledge, as as the supportante the company could new Coulpany mere control the Vertice to be Eigned The Suddent rulput of ten factories

and of course mould able is as or i can dera you a sample of the Hiz if westwarf white product if you mish. In view of the shortist It who if he reen, I to kind endough & mis paint When Trees ret me in month of they Lardeno mito a Colorina Bi mic fact you many Etom subelance. E mit the scripmai men. Propries in mel know if some one of They have look facil mit stany apolognie 3m Euro friding augue In brousting you again bohs, Este do what Truro Galles: m "nur Hochsletter nas



Day I remember tout the human abrueline but couns Eccurrey whent the Election & Marie Franch 6 1946 Im Thomas Edward Inventor. From Sin, - Council secumber the Magne Some In years ago, articles appeared in the leading magazins - I think it was the toomopalitan or muye in which you a avanced your molecular Theory con cerning The human structure, and one of The artisles the properties and functions of Electricity and magnetism were treated as inseparable forces. I remember one of your statements: "a current of Electricity laid in the ground with as - oure establish a magnetic field of about - 1/2 mile around it ite "Electricity and magnetism are inseparable forces" to.

would you be kind mongh to let me know, whether The theory stands.

Stadeville Company
The Kilgore Language Company

Warren, Okla, March 7 1911 Jan Je amount
Mr Thomas a. Eddisortfell hum as 3
Orange H. J. have no Expansion
Orange H. J. have no Exposed

Would be for
Leposed outside Floors, wood to
be fore or after the Planing Mill
Work, your suggestion will
be appreciated by your Friend
WE Kiljon



The Pector Obserbatory.

Wellington, Dew Zealand,

Cheenky 4

Since I met you at the Lick Observatory in 1915, I have had

a number of conversations with my friend, Professor W. Which is the Mount is a state of the possibility of using some state of the most than class for reflecting telescopes, and for which has advised me to write to you to see if fused quartz is commercially obtainable in large discs, of suitable size for the mirror

If the fused quartz is obtainable I think it would be better than glass on account of its lower coefficient of thermal expansion.

And I have thought that if Invar could be used it would be ideal; but I do not know if a mirror of invar could he silvered or not. You will, I hope excuse me for troubling you on this matter; for

in New Zealand I am not able to get the information. I spent a very pleasant & instructive year at Mount William & I also visited Mount Wilson; but I was disappointed in not being able to go X East, when I looked forward to calling to see you. I had a number of interesting & valuable conversations with Mr. Wilson, who was in

Yours very truly,

charge of your exhibit at the Exposition.

6 8. adams.

Director.

Mr. Thomas A. EDISON,

Himself.

EDISON STORAGE DATTERY CO., 1103 LAKESIDE AVENUE, ORANGE, N.J., U.S.A.

#### [ATTACHMENT/ENCLOSURE]

Mr. Edicon: Que, Ritchie of the Camegie Observatory at Mount listen, Cal. has been trying to get a fund quark winners The he has the backing of the Carnegia Qualitation he has not been able to get any encouragement. I The fixed greatly has many knobbs which give full with gingling material and make it impossible to polich the surface true near where it outs Then are of these bubbles. A 40" winner weigh 1000 founds and a 10' minor weight 18000 pounds. Assarty has not been fund in auch large masses, If it could be fused and high hot for a long fixed like glass the

#### ATTACHMENT/ENCLOSURE]

bubbles would probably rise and law the mass clear,

This will probably be done some day, and it will bring a very great advance in athornomical mirror efficiency as the temperature warping in their greatest tombe more.

Try regretfull,

Web. Brinishia

Day that Talso have just completed a Day Mat Tous Protection for the Mary are, Whichis on test, I do not mend to charge the four Mr. Thomas G. Edison you would have a Orange, Inf. Chance + could get pour Dear Sir. The swriter has evolved a toxiometer for the detection of Aydrogen. which will not only give a signal when the danger point is reached but also gives a clear direct reading which will show just what percentage of hydrogen is present. If this interests you and you care to look into it with a view of purchasing if it measures up to your standard, would like to hear from you. yours truly Howard morton Hay

P. M. ISENSEE

Thomas Edison Eng Joed &

Mydear Sir. I wrote you once before, about three years ago respecting the starting of a large andustry here on the Pacific North West Cexist, by searce a farge Notes power Scoutholes you were very Kurd in replying to my letter, but the hard times have prevented the proper to further materialize there its prelimit Wary Tages. The project European or Zather nord war, has brought about condition, hower, nost favorable for the use of large water power in connection with the production of nitrates make from Line through powerful electric Currents, as you well know; and therefore wish to bring

to your eminent smost Enlightenes notice, The following project, which I believe could be apecuted inder the most favorble natural conditions, 2 Know of outside of alaska. Here, however we are in The center of a yant agricultural region, where firtheres could be used to a Great advantage for the whole Country; and we are also on water and Vail short hand to tide-water for milimited foreign export de. Apraetically control a water Dower here low the coasts where I believe, that some two where I have hundred H. P. Electric could be developed at a minimum cost forbuck large enterpreses - Say 50 copor top and those are rast deposits of line Rock - 95 % 98 % Line -

# P. M. ISENSEE

in the immediate vicinity on the rack road. Casides, in this unmediate Vicinity is also an unmeure deposit of Clay, most fuilable for the manufacture of Cement to which the line (which is often as high ar 990/0 fine) is also wonderfully adapted, as the good has already reported on its some years ago. More are also sand o grovel for building purposes along with it in enlimited quantities. There Jollowed with a grant deal finbrest your efforts to contract cheap & Durotle House forthe Saleried + moge carney Classes, and may god Johnah. Clothen bless your for Hyour

especiallo Cepostolic efforts on that directions Day Epostolie for anyone well Know, the volule apostolic Oluvet ( Fals in medium really social organisation in its brown Jame mas Economic Spiritual insepuebly alled for the uplift of the great masses, whom Jesus Certainly Came but up + culipten on the material plane of therefore to some through His Clearch Economic, the very come as He come To Save all unto Spiritual Dalmlun offe stimel. Therefore Shone every dearon, both practical of Spiritual on my side, when of Call you un Economice afostle of Jesus - to the years that There to noplace for flattery on my part. You see what I mean. Furthermore, Same Joundance

# P. M. ISENSEE

EAL ESTATE AND LOANS

a War Babies Home, as Imag call it a home for orphuned + abandoned nar children rictions of The great Shugge the late chust is now magny to dominate our modern mored - Just He same as Through Bone, Pagan o Mediaeval-as well as through the Zunspeckable Turkhe tred to dominant our amount medianal word. What Ever more, I draw make out of the enlargeries. I am creating for valler taking the initialize of goes for thes Home which I mentere that you may not think me mereinary in my motifs, when asking your assistance by the way of statue Jugathous agarding the machinery

people the best to go to for the money to Janance it-Curhore a model Electric City could be beult + um prosprously In all by reason of the inlimited electre H.D? That could se developed, especially as orther a radius of 200 40 250 miles, Ashento judge finn a frem center, over 300,000 H.P. deship 1,000.000 for all & know) could be developed. Just we would ark for legislation favorble for Bonds black in the U. S. theesary the State of Moshington and Jarables by the State of Mashington and Jarables by the State of Mashington and Jarables by on which full legal town bout be unes as the early pruling the bank usternere caure (over 25 pers (25)) idea u the Command asen y Sanghose resor get of out of the south of those resor get of the Colored May all founds of the Mayor the Mayo

## P. M. ISENSEE

REAL ESTATE AND LOANS

Post Scriptum.

I know you are meessingly occupied and it does seem ant of place for me to writegar to ling a letter But it can be read or your leasure moments, perhaps without too much inconvenience & you. Shall the proper & bring to your notice is one well worth your attention. Ju one the Great Steature Uposile of the World of hore is a spot where the greatest and chargest Eledric power in your nature land could could containly be de reloped t in a mon feeled healthy center, with nines of all kinds in the Some teation more or lever the har all raw natural for building a abundance. or lever the face all raw natural for building a abundance. garther letter, especially when Dean Lay privately reconfidentially Hoyou, that a have every reason to believe that three at least of the webest men ofacultier in this country will steam hand

assut us more or less; while I have the certainly that as doon as the wer is over Sohall procure Very valuable Concessions for the work of carry for mar opheus! from the Russian Government in Liberia- Mus is also private. But The goal Runian Gar aly 11. (who helper save our Republic from Discussor in our cool man) once writed me to become a number for life, of & muled, of his official household, provision treng made for me for the Juliane. Onne Trubehonoi + Princene Merenzoff, Pur Lister, were my intimule freuds, and it was Processe marenoff, his cousin , who especially inspose that greatest o most lumanilarun of Rumia Ozars & Reperde the 20,000. Lengs- Which he aid of his own free will h by no means under the premue , upperferrey of par times, as lessened with us-all fory is Sucolus rus very bruconel Same to Thing mo.

PALMER PHYSICAL LABORATORY
PRINCETON UNIVERSITY
PRINCETON, NEW JERBEY
March 25,1916.

Mrs. Thomas Elison, West Change, n.g.

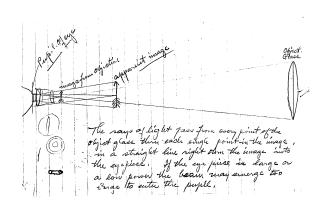
I am surding you four orte of balls which been been coated with platening & termula by the social sing guite their The packages are marked 9, 8, 8, 18, 1, Things to platening a think to be been a proposed that it is a many a think witing the many a think witing the many a think witing the property of the valle so that you mand it is property of the valle so that you mand it is not that you have been to top of them made in the same way, I mile try to furnish them too good to think of your knowled you knowled to the me them if you think the

## PALMER PHYSICAL LABORATORY PRINCETON UNIVERSITY

coating thick enough of per unit more. If you have other metits of the desired would you furnish me sheets of the desired metale approximately there inches approximately there inches approximately the desired metale approximately there is never approximately anything you want I will be able to propare in the way where me interpleting tray a comparation for metale until a propared.

Journal R. French.

#### [ATTACHMENT/ENCLOSURE]



J. ROSEN

25, RUE PIGALLE, 25

ARIS

Ist April, 1916. år: TH Edison -Orange - New York.

Orange - New Yor

dear Sir

neferring to our conversation during my stay in New York - I herewith take the liberty to remind you of same and to ask you if you would be kind enough to take out patents, etc.

And trusting you will favour me with your kind reply -

Believe ma,

Yours very truty,



A.W. THOMPSON. THIRD VICE PRESIDENT.

April 29,1916

My dear Mr.Edison:

8387

You no doubt Would that on a trip which I made to your plant about two years ago you had an instrument for determining accuracy or quickness of the brain in responding to audible signals, and at that time you told me you thought usuch an appartus could be applied with practical according to the property of the proper

Since that the I have been very much interested in tests of this character as well as others, and recently secured the services of Br.T.F.Kohl of Hev Tork, who is conducting an and properties of the third that the continuation of the continuation of the continuation of men in the service as well as those entering the service. I have taken the liberty to write you this note acting that you see him for a few moments and give his your epinion on this would be continued to the continuation of the continua

I runember with a great deal of pleasure the interesting as well as instructive day that I spent with you at your plant in East Orange, and an looking forward to the pleasure of another trip to your plant some time in the future. I will appreciate any courteste you may be able to show Hr.Kemble, and I hope to have the pleasure of reciprecating at some future time.

With assurances of continued respect and esteem, I am,

Yours very truly.

Hr.Thomas A.Edison, East Orange, N.J. M. Thompson,

american distanton New York S.A Leaster (you will no doubt, have heard what - havoe miners- / thisis is Causing amongst the Callourers in the deep Goldmenes of Johan-The only remedy ketherto applied is pumping air into the galleries & spraying water in the

neighbourhood of his heen invente which is de diamond-dillo in able Completel, to exclude order to minimise the The fine sharp dust 25,000 injurious effect of the particles of which are cal. infinitely menute parculated to go ento a cubic ticles of dust, the Now, it seems to me that indaling of which is ya contrivance could be he carre of the falut muented by which the disease - It is so deadly miner is enabled to inhale that no worker in only pure our the disease more menes has a longer may be cradicated. leave of lefe than four my idea is that if each years! worker could Carry on The remedies above strapped to her back mentioned, though they a rubber boy filled serve to abate are inwith fresh tair (a supply effective in preventing of which mught be pumped Unto a reservoir down in the mene for the purpose of refeller, the moin-rubber respirator has get

bago) and i one wither page were the lead from when once open will his bag into a mask stay open felling closely to the mans fale, whilst another The immerin importance pupe communication with of a Contrivance which the surrounding at words would would effecserve to exchale the aco, - teally prevent the used-up air from his benys premature death of then theoretically there thousands of miners megathe an end took too desease - I have the has made me venture of a system of values to write to you If the problem could closing ropening an the mened as hales land to the hales but practically I cannot be practically solved it would prove not see think out the problem only a boon to humanty, of how to close the value but might also become Twhich is to let in the fresh air from the rubber bag - for it seems to me that such a value when a source of profile both to you, and to myrell

I am sending you under se parati cover the report of the - Select Committee of the Legislature of the South agrican knion on meners-fathises in which you will find all the infor noun bul flw. Reit

# [ATTACHMENT/ENCLOSURE]

Luse in my Various factories a Respirator which will keep particles to cert of the long which are many times suddles than those you wention The usual respectator does not Let the Contour afthe deferent faces afthe Meners of the Valve in them is of no Earthly use a is daugerous - Tuse the ordendry rubbar Respondar plug the Valor with sponge It line the whole Edge of the rubber with thick sponge so thick that the Edge always fits the noses face - the Sponge is sewed

## ATTACHMENT/ENCLOSURE]

on, the fruit pore deter sponge like those sold we drug stores should be used

The Respirator is put in water + then surplus conter Sopuecaed out leaving it damp - Breathing () cs Very free - the skin on account of the oponge + moustone is not invitated + the men soon get was to them Where we have 100 men we have a man whose sole buxue is to patch on aponges Keep them in order of Keep there clean - Each workmen has 2 one in use + one for washing, seeparner 260

# [ATTACHMENT/ENCLOSURE]

3

Thave new who have worke for years in an almosphere as ho aded with fine dust that one person could not see author 15 ft destant a yet these snew were Netthy = Impel while Experiences while these continues have work these continues have work these toutines for weeks at a time of nathern Entered my fungs

Day What the makers of news paper book siesus have culomais falding mue of they could cover by Gellevie Hospital msize difthe mifro and fold 440 6. 26" St. the gauge with unmense rapiditypew york city To Mr. Those a Edison ash The record pringing Dear Est at Pardon my writing you this note but I believe you can be of assistance to me if you are willing to do so I am a muse in Bellevie Hospital and much interested in what ever tends to help in curing those who are skek and suffering We are trying to do good here in congested Mew look and although Bellevue is a large institution with many good and efficient murses we can hardly ab all that live would like for the many who enter our doors. It takes several of four good nurses and two graduates alone, in odr Surgical supply rooms working as rapidly as possible to keep enough galize Holded to meet the needs of our Surdical Wards and Operating rooms and still her cannot get shough ahead. In case of a possible when much more will be needed and I do not see how we can possibly meet the demand. I am writing to you to ask you if you

Person.

do not think it would be possible for some kind of a machine to be invented where by this work might be done more quickly and just as efficiently, there bye making it dasier for ist kelp up our supplied. Wonderful things have been done although the line of sciences and invention and great things have been accomplished in There his nothing that would help more to aid the suffering of thousands of people all over this vast united states than are invention of this kind: a machine for folding the gauge ised in dressing wounds and carridg How the injured Do you think such a machine might be possible? It is much needed and I am asking you because I know with your knowledge and what you have done in the past york could at least inform me as to the phility of securing this. Sam enclosinged samples of the gauge most comonly and you will note houdit is folded-to gether; and the size; The largest of the pieces is called a 4 by 8 because if perfectly folded it should neasure 8 inches long and 4 inches wide

might lobsen and Enter the Wounds. now Mr. Edison, will you kindly answer this letter even if it is only by a line? I have been thinking about such a machine. and the way affairs are in the W.S. and our relations with the various countries, Jam sure (in case of War) such an invention would be a real blessing to humanity. Jam only a very ordinary nuise but Senjoy my work and I am anxious for the health and happiness of the greatest possible number of people. Please head this letter, then let me know and I shall be more than grateful to you. God has given you such wonderful Capacities that I am sure you want to help others also. The Supt of Bellevue Training School for nurses, I am sure will uphold me in my desire of obtaining some kind of a machine to do this world I shall be

awaiting your reply, but should you

The others should measure (2 × 4) 4 × 4 and 2 × 2 inches according to the size. The point in folding the gause is to be sure there are no ends societable for and no threads that

desire further information or help or if you ever care to inspect our Hospital and mithods you may come at any time. I am sure a tour of this immens! constitution would be both interesting and instructive.

n would be both interesting ructive Awaling your reply Bellike me:

Olsair 6. Morgan.

O.S. Jam enclosing the temped addressed invelope for a reply the serve to take invelope for a reply the serve to take the temped the their teght to heafth Must a profession in their teght for heafth Must a profession the length of this but there? It was the length of this but there? It was the length of the serve are and any every every every day and could the you know in almost the rudy. Hope you will be interested in resting Bellevie and I troub the glade to good around the place, It you find it convenient to the place, It you find it convenient to a picture of the new buildings which will be rup to date in voluting a picture of the new buildings which will be rup to date in very detail good work in our way.

HENRY J. BRENNAN

MINES AND MININD

CAME ADDRAW

active coaled putting forers olations

Aug. 16, 1916.

Hr. Thomas Addison, Thomas Coarres

Orongo, N. Jing places here coarres

Orongo, N. Jing places here carried

In reply to your esteemed favor of the oth linet. for which I thank you, I trust I may be purdoned for venturing a

which I thank you, I trust I may be perdoned for venturing a word or so more on my subject, "Cheup fuel."

In your letter you stated that anthrecite coal was one of your line, and that after it was turned into electricity, you "come in". The world knows that, so do I, and I know too that what I knew may not Count Emmon, and that the world knows nothing, and cares less about what more of my cloth presume to know or say.

The enclosed clipping from the Scranton Times of the 5th inst. is a fair truthful statement of the value of unmined coal in the ground.

I know but mighty little about electricity, I am sorry to state, however, 'tis said that an open confession is good for the soul. Electrical Engineers of reputation tell me that cheap fuel is an important factor in producing electricity, some of them have stated to me that what I have in mind will produce electricity as cheap as it is produced at Hiegera Falls. Be that as it may, the following is a brief summing up.

HENRY J. BRENNAN

MINES AND MINING

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Behand in demonstrating that could be abled. The second of the second of

Door Sir:

In reply to your extensed town or bid that het. for which I thent on, I bent I say be prisoned for voctoring word or no more on my subject. "Charp fuel."

In your letter you stated that anthrecite coul me onk of your line, and that efter it we turned into disciplity, you "cose to". The world knows that, so do I, and I know too that what I know may not Count for much, and that the world knows nothing, and cores loss shout what many of my cloth presume to know or se,.

The endicated elipping from the Corunton Times of the 5th lastis a feir truthful atatement of the value of unmined cond in the ground.

I know but might. Hittle about electricity, I as worn to state, however, 'the said that an open confession is good for the neal. Electrical Engineers of remarkion tell me that cheen fuel in an important factor in producing electricity, asse of then have stated to me that what I have in mind will produce electricity as cheep as it is produced at Bingrap Palls. Be that as it may, the following in a brief manding up. Meor Potteville Pa., in the heart of the great southern anthracite coal region, are a half dosen small coal properties that can be grouped together, which will total lloOcares, which, on a safe estimate, is underlaid with 100,000,000 tone of merchantable coal of which 55% or 35,000,000 tons will be steam sizes of coal, of the finest quality. I can group those properties together for a price for the estimated coal in the ground, which includes the coat of a lead to the coal to the fine of the coal in the ground. The life of the coal will be approximately not less than 250 years.

The Schmylkill Velley, down along the Schmylkill River, all the way to "hiladelphia, in Cities and Towns, is thickly populated; Philadelphia being the second City in the Union, the cost of electricity, it is claimed, is higher than it should be.

If coal is an importent factor in the production of electricity, I am simply wondering why it might not be a good plan to reverse the order of things, as I have every reason to believe that someons, some day, will do, and instead of hauling coal to "hew Caste" at a high cost, erect a large electric plant, near the mine, and supply all the Cities and Towns, including Philadelphin, from and including Potteville, all the way down the Schwylkill Valley, with fuel of the finest quality, not to exceed one dollar per ton for steam sizes.

Ny line of thought in order to enter into such a contract for approximately 25,000,000 tone of coal, at such a low figure, in so far as the production of the coal may be concerned, is a bit original in so far as coal mining is concerned, I contemplate originaling a company, and interest every man and boy in and about the mine,  $\infty$  employes, stockholders, in a small way in such a company, for good sound reasons,  $\overline{\psi}$  but plan 1 deem fossable and wracticable.

The wise men of the east may ridicale it, I have in wind in so far as this class of gentlemen may be concerned, that once upon a time about the seme time when they laughed at the Bell Telephone. The laughed me out of Court for insisting that there was oil gelore in the old Indian Territory, now Oklahoma.

I know, however, that a legitimate profit can be made on prepared sizes of coal, over and above steam sizes and that steam sizes can be sold at the figure I have quoted.

I can arrange with the property owners to accept one helf of the price for their properties in 65 - 50 year bonde, if I succeed in interesting someone who may be big and broad enough to finance the other helf of a bond issue, through some bank or bond house, without assuming any financial responsibility, in consideration of cheep fuel, provided that I can substantiate my statements, such a house to be made treasurer of the com-may and of a sinking fund, until the principal and interest of the bonded debt is reid. An examination of the properties by a competent coal Mining Engineer will motiefy enyone that my statements are correct.

That particular section too should be a strong compedition in the way of cheap fuel and other advantages, for the location of the contemplated Government armor plant.

With best wishes always, I am

Respectfully yours,

Many Bruman,

### HENRY J. BRENNAN MINES AND MINING

CABLE ADDRESS KIRKOREN--W. U. CODE DELL TELEPHONE 129 R

CARBONDALE, PA. Aug. 23, 1916.

Personal

Fr. Then. a. Edison, Orange, H. J.

Dear Sir:

In answer to your esteemed fover of yenterday, I desire to may a word or no more and then, unless my subject should expend to you, I am done, as I will not attempt to presume further on the time of a mighty busy man.

I have the coal properties, for a price of two and one-half cents per ton for coal in the ground, not thirty five cents.

I have examined those properties minutely and an not astroy in my estimate of 100, 000,000 tons, as that estimate is backed up by the aminious of other impineers of regulation and experience.

I have a corefully prepared report, a conservative resort, such as may be relied on, on those properties. If you might care to read it, it will not here you, I'll be pleased to forward it to you.

Very respectfully yours,

Throng & Breman,

Junderstand that the use of hydraulia Janoes is not enough all the large Jam have Their pools heated Fray hat It forced in a gelowed to strink Of Jaken 20 Syklader 1910

( Sir yer Some line parious he this War of formed an idea, there was now for involvement, at the Man Manu factioning at in Gent, for affection took on Earth. This was beaut to kare proved to the , the want of Lack a wapon. A wapon.

Swill had brouble you with any related as pleasent, but will control myself with a bough resorption of the ichea, the is applicable to all bleavy Buns, lay from 13th applicable to all bleavy Buns, lay from 13th applicable to decline, & propose, become of browning to a Place Fit all the different bats, the whole lang for together by means of thy drawle factline. At parties the blace to whole the whole structure, which in term sources the blacech control to whole structure, which in term worked be difficultied to the water of the best of the Sew broads be difficulted to the market to the or of the section weighing here them broadly of 10 to, she weight structure, to difficulty of throught.

as the Jans are Manufactured at Nulout "That is at for as I can bear". They a far too heavy to combustome . I are bable to cause Collaps of Prace's, is neighbor our wing, to their on mous weight

Not being in a postition to do anything in the mater mystelf, it thought them would be to have, in putting the citia before, a Gartleman of your Standing in the atoms of Sames or Specialist for will give the Rubject your somest allertum, parriched for thent the idea foractival.

I have written the "Gran Lloyd Georges, by the dame to wil, the Same Subject Alla informing him, that I have written you

If the idea it worthy of your allowers to will take it as a complement, if you will kindly of they

( have the Hour to be Sir Your Respectfully)
(1) wird Hilliams

Mining X Engine Smith

Nowhere Greymsuth. W. Court S.S. New "healtend

Bealand



# The Commissioners of the State Reservation at Niagara

hingarax thinblins the stx

Kingston, New York, September 22nd, 1916.

Cleaningter - 9 thenk

My dear Mr. Edison: determined what

phenomena or effects.

Day science has not yet

Commissioners of the State Reservation at Miagara. A discussion has arisen, and I write to ask you whether solence has as yet determined precisely what electricity is. It is hardly necessary to say I am not speaking of its

With many kind regards, I

am as ever,

Very sincerely yours,

ΨO

Thomas Alba Edison, Esq.

West Orange,

New Jersey.

mildusen read this of your signaline it?

Jeanual

Sti

Electricity
The Commissioners of the
state Reservation at Magura

WILLIAM B HOMEAND, PARAMENT NEW YORK THISHAS W MEACHEN, SYPACUSE GEORGE J. MEYER, BUTTALIO PAUL A SCHOOLLHOPF, HABARA FALLS ALPHONSO T. CLEARWATER, KHASSTON

Lingura Falls M. M. Kingston, New York, September 29th, 1916.

My dear Mr. Edison:

I beg to acknowledge the receipt of, and heartily to thank you for your letter of the 25th instant, stating that science has not yet determined what electricity is.

I had read in the newspapers at about the time of the subway accident in New York, that you had expressed this opinion, and so stated in the presence of an electricial engineer by the name of George T. Henchett, who with a great show of crudition stated exactly to the contrary, and that science fully had determined what it is, and at the suggestion of a number of gentlemen who heard his statement, I wrote my letter-of the 22nd instant.

With many kind regards, I am as

ever.

Very strokerens fours

D.A.MCLARTY PRESIDENT

M. W. HINGELEY, CASHIER



SURPLUS \$3,000.00

lir. Thomas Edison, Orange, M. J.

Dear Sir:

I am toking the liberty of writing to you and asking if thru some means something could not be devised, either of a mechanical or chemical nature, to redeem the many thousands of acres of valuable land which lie unproductive and are a great economic loss because no practical means of exterminating the stumps has yet been discovered. Such a discovery would not only be of great value to the farmers of the country but to the whole country as well and all countries where great tracts of such land are to be found. It would seem as though something of a chemical nature, which, when injected into the stump would cause rapid deterioration would be the ideal thing. Would you kindly tell me wither there is anything which would bring about this desired result and if not do you think it would be possible for some such thing to be worked out ? Thenking you for any information extended, I remain.

Very sincerely yours.

to securers them we

October 12. 1916.

Hr. Julius H. Zobel. c/o The First State Bank of Floodwood, Floodwood, Hinnosota.

Dear Sir:-

Course flower of the 5th instant has been received. You set If I know of any chemical which,
when injoined the flower of a tree would consider
that the standard of the standard that the could do it quick enought. I suggest that a
prectical two of recovery the tree stumps would be
to use sheet iron conce, with chimney attached and
then set is o stumps on itse. They will burn to
the ground and separate the main roots. I have no
the ground and separate the main roots. I have no

Yours very truly.

Mov. 20--1916

Mr. Thomas A. Edison,

Llewellyn Park, Orange, N.J.

My Dear Sir:

Knowing that you were yourself once upon a time, a telegrapher, thought you would perhaps be able to enlighten me upon the subject I am writing you, and that if it has never before been done, that perhaps you might be able to make use of it in future. "Why can't a ordinary telegraph relay be of more use

than what it is used for". than what it is used for. Some few years ago while I was working on the old Vandalia lines at Terro-Hauto, Indiana, I had a little experience that has often caused me to think that the "talegraph relay" could be made more use of, if some one like yourself were to take hold of

The experience I had was this. One night while on duty, everything perfectly quiet, I distinctly heard these words come plainly off of an ordinary telegraph relay on my table 'Hollo Bill, Hello I. I thought at the time of it a great deal and have singe spoken to several well versed in the telegraph field, but they have thrown no light on the subject, other than to say it was probably used as both a telegraph and telephone wire, which I myself thought of, but that did not alter the fact, that if I could districtly hear those words from an ordinary telegraph relay, that surely there was a way to get more use out of it than what it is ordinarily used for.

If you think this of any use, or worthy of being looked into, would you kindly let me hear from you on the subject. Thanking you, and trusting I have not troubled you,

I beg to remain, Yours very truly,

am relay ocet a lelephone

and care mark the commence of the c Telegraph Dept. Louisville TIMES. Louisville, KY.

Dr. Gerar M. Marchana Dallas Lexas

November 21, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

My Dear Hr. Edison:-

Please give me your opinion in regard to the use of electricity as a purifier of water. Can water be purified by electrolysis?

Thanking you very kindly

for this information, I am

Yours very truly,
OMM/VII.
Enc. En. (1) Oxano M. Marihuan

water has been purified not by Electricity but by glectricity but by glectricity you should been earthous you should been are many faking as there are many faking as there are many faking

Hovember 28,1916.

Dr. Oscar M. Harchman, Wilson Building, Dallas, Toxas

Dear Sir:-

Soplying to your favor of the 21st instant, ir. Edison requests us to say that water has been purified not by electricity, but by esone made by electricity. If you are invited to go into any proposition of this kind, you should exercise very great caution as there are many fakirs abroad in this line of promotion.

Yours vory truly,

249 maple acc., bdgewood Pk, Pittsburgh Pa. 1442 In. Thos a. Edison, mento Ok, n.g. Alean Sin, In reading, Edison & Toyer, I learned of a device for very senistive to heat, which was built on the order of a microphine (2 shorts of platin with a carlon button between + a stick of hand rubber with shorp prints), as I am in need of a charp device to roughly distinguish between daylight & dark operating a relay, I am interested to Know if this "tosimeta" was ever liveleful arraneically, or if it could be made to work commercially for the purpose I mention? I would appreciate very much any information that you could give me on the subject. huy respectfully yours what he is ento There are me Delanium Cell us

December 2, 1916.

Hr. H. F. Perkins, 249 Haple ave., Edgewood Park, Pittsburgh, Fa.

Dear Sir:-

Roplying to your fevor of the 25th instant, Hr. Edison thinks that the device you need would be one in which a sellentum cell is employed. He does not know who the makers of these cells are, and perhaps you can find out through Queen & Co. Philadelphia, la.

You're very truly.

Edison Laborstory.

#11 Fullerton Avenue, Montpelier, Vermont, December 6th, 1916. FILE p.v/ i.

Mr. Thomas Alvah Edison, East Orange, New Jersey.

Sir:-

1566

There has been immunicable achieves for work been myself trying thems of heart been repeated to the advantage of the desire response about the hot within Violat range or also the horse when the second on high horse the second on high thouse the second on high thouse the second or high made grantened.

I am taking the librity to address you in

this wise hoping that you will be so very kind as to give me your opinion researding an idea.

In theory, I have arranged a few pieces of apparatus to form a system for the transmission and reception of communication. I might state that there is no commercial reason for the existance of this form of communication. It is my opinion, however, that it might be useful as a military signal.

As far as I am aware there is no form of military signal that eannot be picked up by an 'ensay', either by sight, sound or electrical means. By idea has the advantage that, as I see it, it cannot be picked up except by for when it is intended. It is only useful, as you will see, over such distance wherein a direct atmosphere or other course obtains. It is as follows:-

## Transmitting.

Steady electrical power supplied by battery (or dynamo, if convenient)

to an are. Are located in (rear) end of lightproof metal box, mounted so that it night be swung in any position. (Approximate dimensions: length two feet; height and breadth eight inches. Feep shutter arranged in well of box by which are could be trimmed. Reflector behind are, tending to throw strength towards (front) end of box. Light passes through two convex lenses, arranged a convenient distance apart. Telegraph relay set in floor of box, in such manner that a tiny obsteve; attached to its armature would interrupt the light point when relay magnet was not charged. Relay governed by cell and telegraph key. Screen (nitrose de menthyl amiens) set into front end of box, passing only ultra-violet or infra-red rays.

## Receiving.

Three sets of celenium cells. One set arranged vertically in a circle to pick up signals traveling on a level with receiving set. One set arranged above first set, tops inclined to pick up rays coming from above. One set arranged below first cet, bottoms inclined to pick up rays coming from below.

Then any cell is excited, a metal tube, fitted internelly with steppes to exclude all foreign rays could be brought into position to receive rays from the transmitting set exciting the particular cell. Rays to be gicked up for record by means of a bolometer erranged in back of tube.

I realize the idea is in very crude form, but it is my firm belief that it will work. I fail to see where an 'enemy' could pick up the signal.

I wish you would give me your frank opinion as to whether this signal has military possibilities.

Hoping that I may hear from you, only,

however, at your leisure, I am,

Very Respectfully

1.1. League,

(A Telegrapher)

Decembor 12,1916.

Mr. T. T. Tengue, 11 Fullorton Ave., Montpelier, Vermont.

Dear Sir:-

Replying to your favor of the 6th instant, let me tay that there have been innumerable echange project for using Selemium colls, also belonature. I myself have been trying a number of them.

The aqueous vapor of the atmomphere absorbs so much of the lower rays and the ultra violet rays, and there is so much of the hazy atmospheric interferences, that none of the schemes based on light have been made practical un to this time.

Yours very truly.

## Edison General File Series 1916. Articles (E-16-03)

This folder contains correspondence requesting Edison to write articles. letters from journalists and publishers seeking to interview Edison or solicit statements and photographs for publication, and other documents relating to articles by or about Edison and his inventions. Among the documents for 1916 are items regarding the deaths of Edison associate Jonas W. Aylsworth and Canadian inventor and engineer Thomas L. Willson. There is also correspondence pertaining to Edison's camping trip with Henry Ford and John Burroughs and to his health and sleeping habits. In addition, there are clippings, draft letters, and marginalia containing Edison's opinions about political matters, including woman's suffrage and the presidential election. A statement prepared for The Engineering Magazine announces his opposition to a hill introduced by Rep. Clyde H. Tavenner to prohibit the payment of bonuses to government workers on the basis of efficiency studies. Among the correspondents are Abraham Cahan of the Jewish Daily Forward, author and self-improvement training pioneer Dale Carnegie, and Joe Mitchell Chapple of the National Magazine.

Approximately 50 percent of the documents have been selected. The unselected material consists of items that received a perfunctory response or no reply from Edison. The Butterick Building

THE DESIGNER - WINNAM S MACAZINE - AND ENTER A LOS

THE DESIGNATION WASHING MARKET THE WOULd LEAGUE WOULD WOULd LEAGUE WOULD WOULd LEAGUE WOULd LEAGUE WOULd LEAGUE WOULD WOULD WOULd LEAGUE WOULd LEAGUE WOULd LEAGUE WOULd LEAGUE WOULD WOUL

to much of my tung in addition I am

by door in. Edison:

an Experimentar a nest a stateam an

The time for discussing terms

The state for discussing terms

of peace in Europe cannot be for distant.

In a way it is not America's affair. But
America is vitally concerned and Just now
the hosts of ms would like to know for our
guidance what our own Great Ones think the
terms should be. And Europe might cere to
know. Tould be helped in knowing.

and serve your fellows and possibly the nations at wer in answering six questions? We are asking these questions of twenty distinguished Americans. The answers to constitute a symposium in EVERYRODY'S MAGAZINE.

These questions are only suggestions. You are free to ignore any of them or all of them. Your idea of what the terms of peace should be is what we are saking for.

(1) What changes would you make in National boundary lines as they existed before the war?

- (2) Would you preserve the complete individuality of the smaller nations or federate them into larger unite?
- (3) What nation or nations should receive indemnities? To cover what? What nations should may them?
- (4) What plans and guarantees would you advise to insure future safety from military interference?
- (5) What plans and guarantees would you advise to insure future safety from commercial interference?
- (6) In your judgment would or should the Monroo Doctrine prevent America's joining Europe in these plans and guarantees?
- May we have your contribution to this symposium, which we are planning for the March EVERYBODY'S, before January twentieth? Meantime will you have your secretary mail to us or tell us where we may secure the photograph you prefer for reproduction?

We are sending you under this cover January EVERYFODY'S and pamphlet showing how we handled the symposium, "That Do Britishers Think of America's Neutrality?" The proposed symposium, "What distinguished Americans think about the Terms of Peace," should be even more important and helpful. May we have your con-tribution as soon as possible, even if it must be brief?

Mr. Thomas A. Edison.
West Orange
New Jersey.

MMANJ. Ruly N.

. ASSOCIATION

PEPRESENTING THE NORTH AMERI

TIONE

Ir. Thomas A. Edison, West Orange January 6, 3916.

u over 12

Dear Mr. Edison;

The secretary of the American thrift Association tells me of your deep interest in the movement and is working with me in bringing before the youth of North America in our coming Thrift issue, the saving hubt of saving.

will you not put into a few words your splendid "horse sense" suggestions on the value of the Thrift Habit to a young man, workman or clerk, on the threshold of life?

Too many of their futures have "all gone up in smoke". With ten twenty, or thirty cents a day sport in cigarets they have been out of pocket and out of brain tissue.

We want to help men build homes, build a business, build a character, build their futures -and Thrift is at the bottom of it all.

By this mail I send you a copy of our Thrift issue of last year, in which James J. Hill wrote the opening article, followed by Mr. For a outoffic experience.

Pardon me for writing you, but thousands of young men will thank you for what you write.

Sincerely yours

Music Clar



440 South Dearborn Street, CHICAGO, ILL., U. S. A.

January 12, 1916.

6500

OFFICIAL ORGAN OF THE INTERNATIONAL ACETYLENE ASSOCIATION.

Thomas A. Edison, Esc., West Orange, W. J.

Dear Sir:

Perhaps you remember about one year ago giving an interview to a correspondent of the Hew York Times, in which you maked what you considered the principal achievements of inventors since the clasovery of the electric light.

There were seventeen would benefits in this list, and we recall that among these was: "The discovery of the commercial method for the production of acetylene."

The man who was really responsible for this discovery - who made posithe the great acetylene industry of today - was Mr. Thomas Leopold Wilson, Cenedian extentist, engineer and inventor. On Decomber 80, last, he died following a sudden illners in New York.

His services to the world, through his inventions, were multifold. Probably you knew him personally, and trusting this to be so, we some to our reason for mutiting at this time.

As official organ of the acetylene industry, our publication feels incumbent to present a fitting tribute to the late Mr. Willson in our columns.

We wonder if you would be so kind as to favor us with a word for this purpose - through your recognition of connertial acetyline as a world-benefitting discovery, such an expression would be sost fitting as due appreciation of a noted scientist forecost prominent in the event.

A word from you would be greatly appreciated.

Yours very truly,

## THE CURTIS PUBLISHING COMPANY INDEPENDENCE SQUARE

PHILADELPHIA THE LADIES HOME JOURNAL THE SATURDAY EVENING POST THE COUNTRY GENTLEMAN

VOCATIONAL DIVISION

January 12, 1916.

Mr. Thomas A. Edison, West Orange, New Jersey.

Deer Mr. Edison,-

both socially and intellectually considered, other professions. He can't see that salesmanship personness a respectable life time employees, "If you wire see, immediately, collect, a cos or two contence tribute to enlemanship, any our estimate \$2\$, that may help this young man of ay present concern, to see straight?" I'll find opportunity sees of these days duly to think you.

Yours very truly,

Manager Vocational Division.

124 EAST 281% STREET NEW YORK

EPRESENTING THE NORTH AMERICAN

Jan. 13, 1916.

Mr. Meadoweraft, Secretary to Mr. Edison, Orange, H. J. 6608

Dear Mr. Meadoweraft:

You have been very kind in co-operating with us in attempting to secure from Mr. Edison a special message on Thrift.

I can quite appreciate how overwhelmed he is with work and the many appeals that come to him.

However, you may be able to put your hand on some statement he has made in reference to Thrift that I might quote. For I know that this is close to in thought and a sentence from him would not be a treemdously in helping many a fellow has stranged to appreciate him by the way he has straighed up and the splendid accomplishment he has made in his life.

I would greatly value such a quotation if you can locate it. It will help many a fellow climb up. Thank you.

Cordinally

Mr. Edison I think I there heard your day that as a young man, in they apt tays, you always opened at Samings Bank account in way been you went to work in I great the Sodich laid of your sinclined to make you their fact in the print they will the sodies of your sinchines to make you think to the sodies of the Inspections to day.

PUBLIC ALEDGER

INDEPENDENCE SOURE PHILADELPHIA

January the Thirteenth Nineteen Sixteen

p. forest

Thomas A. Edison, Esq., West Orange, N.J.

My dear Mr. Edison: -

With respect to the rapid re-building of your plant for making phenol in Newark, we venture to ask, for editorial information, that a statement be prepared and sent to us indicating the extent of trade in carbolic acid in this country, and the need for the commodity produced by the war.

We should welcome from you from time to time information, not necessarily to be published, but which in your judgment might serve as a proper basis for comment on important Before expressing affairs of which you are specially cognizant. editorial opinions we would know the facts in their true bearings; we wish to be unusually well informed, and therefore more responsible in our utterances than newspapers that are not national in their scope and purposes. Should you be disposed to render this service on occasions selected by you, I am sure that it would prove of high public interest and value.

ask him to corte questions + Ywill by a account second enganding Carbolia Anching Et with which with a first

Jan. 17th. 1916.

Er. H. B. Brougham, Public Ledger, Independence Square, Philadelphia, Pa.

Dear Cir:

Your favor of the 13th insteat to ir. Edison has been received by him. He is exceedingly busy on some special investigations that he is making, and has asked me to write to you and say that if you will send him a list of specific questions in regard to Carbolic acid, aniline, Bonnol, etc., he will try to answer those that touch points with which he is fumiliar.

Yours very truly,

assistant to Mr. Edison.

TELEPHONE CONNECTION PRIVATE EXCHANGE

### THE ENGINEERING MAGAZINE

SABLE CORRESPONDENCY YORK

E. Crange, H.J.

- Lank Comornior

My dear Sir:

I am indebted to Mr. Rollin W. Hutchingon, Jr., for your personal address, and I take pleasure in sending you by this post a marked copy of the current number of The Engineering Magazine, containing a special article from his pen, which I regard as altogother the samest and strongest statement that has yet been made as to the future development of our Motor Truck Industry.

The pleasure automobile has wrought a revolution, and for more than two years post I have been predicting that the motor truck is certain to work a further and greater revolution if the industry be directed along tried and proved lines of constructive commercial enterprise.

'In other words, what Henry Ford and others have done in standardizing and popularizing pleasure automobiles, can undoubtedly be duplicated over and over again in motor trucks.

I saked Mr. Hutchinson to give me a list of the "thinking men" in the industry, so that I might send his article to them, and as he includes you among those who are thinking intently upon the problem, I take special pleasure ir sending you what he has written.



Er. J. E. Headoweroft, Edison Emboratories, Orange, S. J.

Dear Sir:

To desire to include in our edition of RAYER HETS issued on Pobrumry 18th, a picture of Nr. Foreum a Adinon, whose birthday anniversary, we understand, occurs on February 18th. For this purpose, we require not more than fifty feet of film, showing LF. Edison at work or at leisure, to be used under a caption somewhat as follows:

"Thomas A. Edison, electrical wizard, celebrates his sixty-ninth birthday."

As you know, it takes less than two minutes to expose fifty feet of film and our emmorrants would take my little more than this of Tw. Edison's valuable time.

Till you kindly bring this matter to Er. Edison's attention together with the request that he favor us by allowing the ploture to be taken?

We should like to make this film as soon as possible, but it would be available if taken not later than February 6th.

Thanking you in advance for your courtesy, we are

Yours very truly,

Have news.

No. Edwards it was newerth

HWF/MCB.

Jon. 22nd. 1916.

Patne Hews, 1 Congress Street, Jersey City, H. J.

Dear Sir:

I am in receipt of your fevor of the SOth instent, and here consulted ir. Ecison in regard to making about fifty feet of film showing Mr. Edison at work or at leisure, to be used in your Pathe Here of Fobruary 12th.

Mr. Edicon is willing that this picture may be taken, but would prefer not to do it next week. You can call me up if you like in the beginning of the week of January Slet.

Yours very truly,

Assistant to Ar. Edison.

THE CURTIS PUBLISHING COMPANY INDEPENDENCE SOUARE PHILADELPHIA

Ties moore

THE LADIES HOME JOURNAL THE SATURDAY EVENING POST THE COUNTRY GENTLEMAN

VOCATIONAL DIVISION

January 20, 1916



Mr. William H. Meadowcroft

Assistant to Mr. Thomas A. Edison

West Orange, Hew Jersey

Dear Mr. Meadowcroft:-

You may remember that a few days ago I wrote to lir. Didson requesting hat to wise me, collect a to lir. Didson requesting hat to wise me, collect a support of the collection of the collection

Assure Ir. Edison, please, that he can be quest and that full appreciation will walcome only fifteen or twenty or here words that he may find it in his heart to dictate.

Very truly yours

THE CURTIS FUBLISHING COMPANY

WILKING More

Manager of Vocational Division

HWM NRG

RHI: William Hore To represent to the television L' dux WITTER OUT SURVEY Part of the act instant to my affice to other hut any who odinamone sepregularistofe there was traily apported, -I have found Waterway is Light typecan, in well buy to The record life they are months truck Journal Mulif

AL IN THE UNITED STATES ESTABLISHED 1883. -00



A MONTHLY MUSICAL JOURNAL FOR TEACHERS, STUDENTS AND MUSIC LOVERS

THEO PRESSER CO PUBLISHERS

1712-1714 CHESTNUT STREET PHILADELPHIA, PA.

Jan. 22nd, 1916

THE LANGEST CIRCULATION NY MUSICAL PERIODICAL

IN THE WORLD.

Maxwell -

Mr. Thos. A. Edison,

Dear Mr. Edison:- Orke we conselling whiten you have been feel below the state of kindly consented to favor us with your opinion upon the subject of "Music a Human Necessity in Modern Life" Not a Needless Accomplishment.

I realize how extremely busy you have been since the outbreak of the war and since the fire from which you recovered so phenomentally in such a short time and for that reason I have delayed writing you again.

This symposium was published month by month and included the opinions of a great many mon who would have hesitateen the fiven then for any other cause wide need for more music and better music for the people.

envelope, registered, several pages from tHR NTUDE in in which these previous opinions have been given in am sure that our readers would be very gain to you for your opinion which we shall take pleasure in publishing as soon as we get it.

We take pleasure in sending you a copy of an editorial of the STUDE which has been reprinted by private individuals and circulated through a great many thousand copies.

Very cordially,

TRC/CMM

THE EDITOR OF THE ETUDE

Tains Baver Cooks

#### [ATTACHMENT/ENCLOSURE]

know that musto will make a soldior charge a trench moor resolutely and a workman do his work more accurately and representative will make a soldior charge a trench moor resolutely and the transition of that must frequently aids the composure of a nervous person, that it helps us enjoy our dimers better and ssolve us in realistic our work. The care some of the transition of the transitio

all have for metal and morel development. Laste speaks in the need we have for mental and morel development. Laste speaks in the tongues of all nations. If the theme is not beyond our comprehension and if the composer knows how to express the thought that he means to enter the second of the composer knows how to express the thought of the them are and his integration has message, no the our own. Listen to a research the thoughts and have conform a pretty good idea of its papping, even though you have never visited their country nor read their literature.

All music conveys some kind of message. It experies the very assemble of human thought and emotions and pational spirit and emits of a nation are sometimes better that by a simple song than by the commentaries of its historians.

movement which required the crystalizing of public sentiment I should profer an appropriate song to a bushel backet full of speeches.

Chere is as much in music as we are able to get out of it. Iterahus to spoad music is just as important as reading good books. The more good nucle we hear the more we are able to appreciate music generally. There appears to be a progression of musical team of the occurs in the normal mind if one hear enough the contract of the occurs in the normal mind if one hear enough the contract of the occurs in the normal mind if one hear enough the contract of the occurs in the normal mind in the occurs of the occurs occurs of the occurs occurs

my opinion, an important and musical culture in young people is, in mean, necessary them. I do no sort mean, necessary them that the big presents owe them. I do no sort mean, necessary them to the property of the property

#### [ATTACHMENT/ENCLOSURE]

(2)

sufficient opportunity of hearing good music to insure that they will sequire the faculty of appreciating and understanding at least some of the botter kinds of music. By idea is that a young person cannot hear too much music. Of course there are some songs which should not be heard and there is some music which, if its themsels comprehended, is not wholesome, but perental censorship of music is comparatively simple matter.

#### THE ETUDE

## Music a Human Necessity in Modern Life Not a Needless Accomplishment

Among the many Americans foremost in public life who are taking part in this momentous symposium from month to month are the following:

> EDWARD BOK ANDREW CARNEGIE RUSSELL H. CONWELL DANIEL FROHMAN G. STANLEY HALL

THOMAS EDISON HON, RICHMOND P. HOBSON ELDRIDGE R. JOHNSON DAVID STARR JORDAN JOHN LUTHER LONG

Mr. Bok's Contribution Appeared in April, Mr. Carnegie's Contribution in May, and Dr. Hall's in June.

## What Music Should Mean to the Business Man

By Eldridge R. Johnson Skirker R. Jahmen, or Freddent of the Vitter Talking Hashin Company, has introduced ure obnered underfal late the model work of the constraint had results in what and de consected he de a treatment for a strategy late of the constraint had results in which a strategy late of the degree of the desired of the degree of th

GNORANCE of the true philosophy of file is a compared to the c some aleep. Everything that could not be turned into material would was pashed to one side or postponed to that time which we all look forward to—the time when we would achieve success and when we could afford to inhulge our-evers. The fact that a well-labalized temperament is neces-sary to the proper use and enjoyment of wealth when obtained was not generally understood a

were oncared was not generately understood as Morei does not appeal to the average leadings man simply for the reason that he does not construct the same of the reason that he does not construct the same control and the same construction of the same control and the same of few years ago.

those of bosons, as successful life means development of every faculty. If rither comes are a successful life means the control of the contro

all locome 'incitigent between,' and a filled try
green and the control of the co

love music is a mistake.

It is our lustiness to develop and enjoy the gifts that Nature has bestowed upon us. Let no man think that he is too busy to listen to musiche is cheating himself. Music means more to the business man than to any other class of men.





















DR. G. STANLEY HALL



RUSSELL H. CONWELL







DAVID STARR JORDAN

#### THE CURTIS PUBLISHING COMPANY

INDEPENDENCE SQUARE PHILADELPHIA



VOCATIONAL DIVISION

February 1, 1916

Mr. Thomas A. Edison

West Orange

Hen Jersey

Bear Mr. Edison:-

chank you for your impediate confidence with my record request to the first which to analomentiath. It serves every asceptably the purposed I had in mind, in requesting it and I am approachative. The young man to whom, my letter referred is now, on far as him sind is concerned, our his feet. You and Judge Gay and Mr. Taff and head they have confidence and a few others halped to put him

because he considers it beneath him, no matter against what false standards of culture and of gentility he assures against what false by name. And you will permit no, please, mism opportunity arise, to claim for your belf tribute to due he proteins and which is a supering introduct a value of any one young not not not stand to a supering introduct a wider hearing than the care of any one young man can control.

Some of these days, when the right opportunity is at hand, I me going to take you are not provided by the provided provid

Yours very truly

THE CURTIS PUBLISHING COMPANY \_

Manager of Vocational Division

HWM FG

A. W. GLESSHER CHAPME T. SKINGLE

BECOND VICE-PRESIDENT RECORDING SECRETAR

Aress Club of Chicago CITY HALL SQUARE BUILDING 139 N. CLARK STREET

Directors ----

> J. B. Heneritan JOS. R. TAYLOR Q. W. WEEK Francisco March

February 7, 1916.

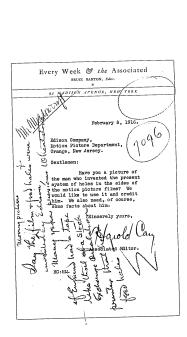
Mr. Thomas A. Edison,

West Orange, N. J.

My Dear Sir:

May I take this opportunity of thanking you for your splendid expression of sympathy upon the recent death of Mr. Thomas Leopold Willson - the inventor of commercial calcium carbide - reproduced in the Acetylene Journal and augmenting to large extent our own notice and biography.

With the issue in which this article appeared I resigned the editorship of the publication, and am now writing the many who have so kindly assisted me during the time I was in the editor's chair - hence this word of appreciation for your courtesy.



# TELECRAM

RECEIVED AT 288 MAIN ST. 39 NY 8'21 D. R. RIGE, N. J.

EA BROOKLYN HY 1245P FEB 16-16 1258- 116 T A EDISON

ORANGE NJ

THE EDISON BATTERY IS DEFECTIVE IN NAVAL REPORT ON E 2 EXPENSION PLEASE SEND TO THE EAGLE A STATEMENT IN DEFENSE

BROOKLYN EAGLE

1258PM



7459

NATIONAL MAGAZINE BOSTON, MASS. EMISS ST. JOE MITCHELL CHAPPLE 1st March, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

My dear Mr. Edison: --

if you are going to make your trip South, and whether it will be pencible for me to see you when I am in that vicinity about March lith? I would like to have a little chat with you, so as to prepare a little chat for the reader of the MATONA. Seashew, our readers eem to feel SIII used if we let cix mounts pace without scenting mer about Thomas A. Edison.

I cm anxious to know what progress has been made on the "Tolkecribe". I wrote an article about it, and new I mm wondering whether it would senditude to use in my library, to talk my thoughts into it at night, and have the recorded for the next morning to the test might, and have the thoughts that come to make the condition of the progress of the made and "hours of many in the progress of the made and income of the made as Thorseon und to do.

"TLAKELLOHIES OF PARKOES PECFEE," which I have been giving all over the country. Anyone in the audience is privileged all over the country. Anyone in the audience is privileged to call on me for a word picture of some calcivity, and examine they call for Thomas A. Edison — which all privileged the product of the country of of the country

I am amxious to prepare something in the Washing-

#### NATIONAL MAGAZINE

Thomas A. Edison

\*(2)\*

ton department concerning the work of the Advisory Committee, and would like to see you to get some information about that if possible.

With cordial best wishes, believe me,

Yours sincerely,

J.M.C.

In In the stances

March 8th', 1916.

Mr. Durand:

Mr. Charple is an old friend of Mr. Edison's and he has published a great many articles about him and about our products. It is all to the good.

You will see in the second paragraph in ir. Chapple's letter that he wante to know semething about the Colecethe. Will you this that no neite letter and explain to him so acting about the commercial statum and the practical application of the invention as it is at procont. You will find that he will probably have a nice article about it in the lational Magazine.

Kindly say in your letter that I received his favor of the seventh instant and have saked you to reply to his questions, as it comes in your province.

.. H. MEADOWCHOFT.

TELEPHONE CONNECTION PRIVATE EXCHANGE

### THE ENGINEERING MAGAZINE

140-142 NASSAU ST NEW YORK

CABLE ARODASINEW YORK WESTERN UNION ALDIRECTORY AND LIEBERS CODES USED

March 8, 1916.

Thos. A. Edison, Esq., East Orange, N. J.

My dear Sir:

Prompted by the leaders of the Labor Unions, Congressman Tavener of Illinois has introduced in the House a bill prohibiting the use of time studies and the payment of premiums or bonus in cash to the mechanics and employees in all Government arsenals and ship-yards. I enclose a copy of the bill, so that you may know its present provisions, and I understand that the scheme is to prohibit all Government contractors from employing these systems.

Of course you know that the Labor Unions bitterly opposed the introduction of the power loom, the sewing machine, the locomotive, the air brake, the type-setting machine, end in fact every great labor-saving device that has ever been invented -- upon the stupid theory that "it would throw men out of work." This proposed logislation is of a piece with all such ignorant reasoning, and the plan of the labor leaders is to take advantage of this presidential year to force such legislation through Congress.

I presume you know that similar legislation was slipped through, in the closing days of the last Congress, as "a ridor" in an Appropriation Bill--Fitzgeral, the Temmany Congressman from New York, who is Chairman of the Appropriation Committee, being the man who worked the scheme at the beheat of the labor leaders.

The necessity for exposing and blocking this legislation is so manifest that a COMMITTEE of TEN, representing all the leading engineering societies, the National Association of Manufacturers, the National Metal Trade Association, the Chamber of Commerce of the United States, and many local chambers, has been appointed to take active steps in opposition. Mr. Henry R. Towns has accepted the Chairmenship of this Committee, and I am serving as one of its active members.

As a means of exposing the movement, I plan to present all the facts in the forthcoming April number of The Engineering Magazine, and Mr. Towne has agreed to give me a very notable leading article upon the subject.

To supplement the facts which Mr. Towns and I shall present, I especially desire brief expressions of opinion upon the subject from about twenty-five or thirty of the foremost men now in charge of our greatest engineering and mechanical industries --- the aim being to show Congressmen that the industrial leadership of the country is a unit in opposition.

Will you be kind enough, therefore, to write me promptly a brief and pointed letter, stating the objections which you, as a large employer, see to legislation of this damaging character? I want to publish your letter in company with some twentyfive others of like character from the foremost executives and employers in the United States, and I am very sure that such a publication will prove of great practical value in opening the wes of Congressmen who have given no study to the subject, and hence do not understand it.

TELEPHONE CONNECTION

PHIVATE EXCHANGE
CONNECTING ALL DEPARTMENTS



CABLE ARODASI. HEW YORK ENARCHED, LONDON WESTERN UNION, AI, DIRECTORY AND LIEBERS CODES USED

Thos. A. Edison, Esq. #2

I presume you know how the Labor Unions have dominated Mritish industry—seven to the point of imperling the nation through lack of war munitions. Unless American employers now pask out explaintically on such legislation as the Tavenmor Bill, we say be sure that the labor lessers and the scheming politicians will make serious troublefor us.

Very truly yours,

John of Deandaja

Editor and Proprietor.

#### [ATTACHMENT/ENCLOSURE]

COPY

64th Congress, 1st Session

H. R. 8665

IN THE HOUSE OF REPRESENTATIVES

January 11, 1916

Mr. Tavenner introduced the following bill; which was referred to the Committee oh Labor and ordered to be printed.

To regulate the method of directing the work of Government employees.

Be in enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be unlawful for any officer, manager, superindendent, foreaan, or other person having charge of the work of any employee of the United States Government to make or cause to be made with a stop watch or other time-measuring davice a time study of any job of any such employee between the starting and completion thereof, or of the movements of any such employee while engaged upon such work. No premiums or bonus or cash reward shall be paid to any employee in addition to his regular wages, except for suggestions resulting in improvement or economy in the operation of any Government plant.

850. 2. That any violations of the provisions of this Act shall be deemed a misdememor and shall be punished by a fine of not more than \$500 or by imprisonment of not more than six months, at the discretion of the court.

#### [ATTACHMENT/ENCLOSURE]

The bill introduced by Tavenner is in my opinion based on a fallacy of the It is an attempt to prevent Efficiency, so disasterous both to Lator and the public The worst enemy of all the workers is inefficiently managed whop and yet the Labor leaders cannat comprehend the fact probably because it is themeing based on mental processes of a primary Character, There are other works to improve the many ways cohereby labor leaders can improve Hase Conditions by legistation but this is tentour bill of Tavenner is not one of them,

JOHN A. RUSH NEWSPAPER CORRESPONDENT ORANGE, NEW JERSEY

March 30,1916.

wise. I get bouch

Mr.Thomas A.Edison.

Ft . Myer .Fla.

Dear Sir:-I amtaking the liberty of writing you to ask if you would care to say a word concerning the New York Herald's attitude toward your inventions and accomplishments in the years past. The Herald will have an anniversary number soon and I was asked to see you. If you have any of your valuable time to spare and can conveniently write a statement for publication I

would be extremely obliged to you.

With deep gratitude for your many past favors, and tr usting you will have full measure of enjoyment during the vacation you so richly earned, I remain,

Yours respectfully,

olin a. Rush.



no aus

NATIONAL MAGAZINE BOSTON, MASS.

31st March 1916

Mr. Thomas A. Edison Orange, New Jersey

My dear Sir:

We enclose herewith rough galley proof of paragraph

prepared by Mr. Chapple Which is to appear in the April issue of the NATIONAL MAGAZINE.

Very sincerely,

Editorial Department.

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#### [ATTACHMENT/ENCLOSURE]

AMONG the eminent witnesses who appeared at the hearing of the Neval
Anfairs Committee was Thomas Alva Ridson. While many of the
questions had to be repeated both in this keeper-like the bad not lest an appreciation of the interest rule discussion of grave
problems. He like like the discussion is measured to the discussion of grave
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wothin turnism in universating to some protein protein word "monointation." Mr. Edition's plan of word is summed up in plan to word is summed up the protein in the starts out upon months, but the concentrated thought of the whard of Grouge and his corps of assistant, advany yields coultie, "The mean hearings included the testimony of anny peace us well so prof I braick Hearings included the testimony of anny peace us well so prof I braick Heary's. One of the messengene outside kept repeating all the profit of Braick Heary's.

One of the messengers outside kept repeating the words of Patrick Heary's address—"Is life so dear or peaces to sweet?" until forance Secretary Bryan came ulong outside, and then his collegating coxed as he tried again to pronounce "pacifist" quickly, with a refrain of "Sister Susie's Sewing Shirts-for Soldiers."

 $(z^{j})$ 

#### New Morke American

May 17,1916

Mr Thomas A.Edison

Dear Mr.Edison:

(8660

As you have doubtless read in the newspapers, District

Attorney Swann, and also the Thompson Committee, contemplate investigating the wholesale "wire-tapping" which has been going on in this city for some years. It has been learned that within two years no less than 350 telephones have been tapped, Legal authorities have told The American that this practice is without warrant of law.Mr.Swann himself says "wire-tapping" is not legal unless possible crime is involved. The "tapping" during the recent Charities investigation has been widely exposed.

The American requests that you allow a reporter to visit you, in order to get a statement of your views on the question of this "tapping." As you were so closely allied with the Browth of the telephone to its presentligh etandard, your words would carry much weight. If it is not possible for a reporter to see you personally, could you dictate some statement, that this paper might have.

Thanking you in advance for an answer to this communication, I am

very truly yours Lewis Wood

New York American

Kindly address R.C.McCabe

City Editor

New York American 238 William St. New York, N.Y.

## JOHN A. RUSH NEWSPAPER CORRESPONDENT ORANGE, NEW JERSEY LEY 18, 1916.

ar. W. H. Mead ower oft .

Secretary to Mr. Thomas A. Edison,

wear Sir: The New York Herald would like to get from Ar. Edison some word on his recent talk with Ar. George J. Forking concerning Colonel Scorevett's

campaign for the Presidency. Can I see Mr. Edison tomorrow?

f thank you for your many courtesies.

Grat ofully yours,

John a. Rush

I am not with pollical field a de not want to get in -

#### PUBLIC LEDGER

INDEPENDENCE SQUARE

PHILADELPHIA

Thomas A. Edison, Esq., West Orange, M.J.

Dear Mr. Edison: -

19th May 1916

Mrs. Mary Roberts Rinehart, who, as you know, is one of the most coultain women writers in the country-if not actually the most popular women writers in the country-if not actually the most popular--nha erranged to report the three national womentions for the Public ledger Syndicate, and her report will go into the newspapers representing all shades of political belief throughout the country. She is a warm samirer of the country which we will be shaded by the public through the country when we closed with her the other of the country when we have any the country when we consider the two laws and or you am ar. noosevert, and when we drosed with her the other day, she asked me to write to you requesting that you have sent to her at Sewickley, Pa., data relating to the calling of the Mat-ional Progressive Convection, the list of officers and such other detailed information as may be necessary.

Also, in order to represent correctly the attitude of the Progressive leaders to the readers of the nation it is necessary that Krs. Binehart have such antecedent knowledge as may be properly divulged in a confidential way. If favorably disposed, will you not communicate with her direct at her address in Sewickley?

Mrs. Rinehart would go to West Orange to see you personnelly were it not for the fact that she has algred a contract to finish her first novel before the convention opens and must work uncessingly upon it. If you should chance to visit must book uncessingly upon it. If you should chance to visit relationship before the Convention opens, she would appreciate your telephoning her at Sewickley and arranging for an appointment there.

Ordially and sincerely yours.

Day

Day

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anything about polarious directly

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## Hewish Daily Horward

NEW YORK

May 26, 1916,

Day I well acc Mr. Thomas Edison, Orange, N.J.

Dear Sir:-

In addressing this letter to you I represent the Yiddish speaking multitudes of America. They are naturally familiar with your glorious name and many of them have read a good deal about your great inventions and contributions to the progress of humanity.

It is my ambition, however, to tell them a little more about yourself and you would confer an inestimable honor and favor if you would make an appointment to meet me for a personal interview.

Any place and time you may name will be thankfully accepted by

Yours respectfully, Sakan

Rditor of JEWISH DAILY FORWARD

May 29th. 1916.

Hr. Abraham Cahan, Editor, Jewish Daily Forward, Forward Building, Hew York City.

Dear Sir:

Your favor of the 36th instant to Mr. Edison has been received and submitted to him. He requests me to say that he will see you any day at the Laboratory.

I would suggest that you call me up in advance of your coming, and then I shall be able to tell you if he will surely be here.

Yours very truly,

Assistant to Mr. Edison.

WHO'S WHO IN NEW YORK

EDITOR

1.3

June 12, 1916.

Was to be

Mr. Thomas Alva Edison, Orange, N. J.

Dear Mr. Edison: -

In bringing out the 7th Edition of "Who's Who in New York" we must again ask your co-operation in order to secure accuracy.

Your biography herewith enclosed is now three years old. The information therein contained undoubtedly needs revision and we should be grateful to you if you will look it over and make such changes as you think necessary.

We aim to present in as few words as possible a biographical sketch of our important citizens. This collection has had in the past a real value as a book of reference and unquestionably this value increases with each edition.

By supplying this information you incur no obligation to become a subscriber and you will not be approached by solicitors.

This is a limited edition and no reprints will be made. Therefore if you desire to subscribe, the early receipt of your order on the enclosed form will assure you a copy.

Sincerely yours,

Nexuaull, Kuox

HWK-T

#### [ATTACHMENT/ENCLOSURE]

FILE NO.

69

WE ATTACH BELOW CLIPPING FROM THE 1914 EDITION OF "WHO'S WHO IN NEW YORK."
THE 1917 EDITION WILL GO TO PRESS SHORTLY. IN ORDER THAT YOUR BIOGRAPH.
ICAL SKETCH MAY BE UP-TO-DATE, WILL YOU KINDLY MAKE SUCH CORRECTIONS AND
ADDITIONS AS MAY SEEM NECESSARY AND RETURN IMMEDIATELY.

| Beslew -                                  | BEROOM, THOMAS ALVA  Heartrian, incomer, h. Hiller, Othe, Pob., H., H.T.  Bertrian, incomer, h. Hiller, Othe, Pob., H., H.T.  Bertrian, incomer, h. Hiller, Other pob., H., H.T.  Bertrian, incomer, h. Hiller, other heartrian from Sile  order acceptable field, the doctor of the control of the |
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Wildman Magazine Service

118 EAST 28T! STREET NEW YORK.

Mr. William H. Meadoworoft, c/o Thomas A. Edison, Orange, N.J.

Dear Mr . Meadoweroft:

Do you think that I could get Mr. Edison to autograph one of his photographs for me to add to my collection! If you think that he would be so kind as to do this and will tell me where I can get the best photograph, I shall send it down to you.

Very sincerely yours,

Frank Comother

Emmuel Growther/C.

Mr. Equient minima de la como mensorare de la como

Mr Edwar : I guess it would be best to simply autograph this .

Mearown

Elisan, T.A. - Persmel



Building, Park Row, N. Y

224)

New York, June 21, 1916.

Thos. A. Edison, Orange,

range, Rew Jersey write of

Dear Mr. Edison,

The Torid wishes to thank you for the interest you have shown to the Statue of Liberty Illumination Tund, and for your contribution.

May me not set you to write us a short stotement for publication giving your approval of the coresent? The following suggestion might be of some use in writing this statement:

"I consider it an honer to contribute my densition to the Status of Lie ray Illumination Tune. Every American should rolly to the support of such a petricitic movement. Likeway enshroused in derimacs every night can never be the inequiration she should be. I cernestly hope that every success will attend the Jorla's esapeign for the \$40,000 fund.

Very truly yours,

Earl Harding.

#### AYLSWORTH

The men who dig and celve into the mysteries of science must make many sacrifices in exchange for the great privelege. But no man who does not love the work will dig and delve at it, and thus the reward of most investigators comes much as come the satisfactions of a mother's love, not in material returns but in sentimental gains. Again, who knows so well as the successful investigative scientist the glowing pride which only can arise from having definitely added to the sum of the world's knowledge?

It must seem, for these and other reasons, that Jones Walter Aylsworth, who died recently in his New Jersey home, the bed on which he passed away situate not far from the little laboratory of big results wherein he worked his wonders, must have lived a fuller, Gladder life than most men.

For he had not lived and worked, he had not delved and dug in vain. Few men's memories have been honored by the grief of more associates known widely in the world of science than now genuinely mourn his passing.

This is to be no set and stolld biographical account of Aylsworth. It has no embition other than to give to those who care to read it some impressions of the man gathered by a layman in conversation with a group of friends who knew and loved him. It is the Edison group which talked of him to me -- such

2 Aylsowrth

men as the great inventor, himself, Meadowcroft and Hutchison.

I wish I might feel certain that when I pass along three men
as able and as qualified to judge will speak as well of me!

Aylsworth was bom in the last days of December, 1868, and died June 7th, of this year, 1916, midway between his forty-seventh and forty-eighth birthday. Not very frequently do we encounter records of so few years which have been so full.

His was not a ripe old age, but an amazingly large proportion of its consents were productive. The world owes much to the mere fact that Aylsworth lived.

Like thousands of successful Americans he had to struggle hard for all his priveleges of production. Thirsting for knowledge he did not grudge the price of effort which it cost.

No silver-spoon was in his mouth when he was born, no velvet fingered Pate smoothed obstacles from his life's path in youth or early manhood. But struggling never meant discouragement to him. A set-back, now and then, ever tended to endow him with new strength, mental and psychological, as physical exercise developes human musclex.

Attica, Indiana, was his birth-place, and he went to school there, finding in the high-school course sound preparation for his later work in Perdue University, that small, "free-water" institution, which has produced so many really celebrated Americans, including many-members of our most eminent modern lit-

erary group.

Not every-his early search for knowledge was without-itsdisappointments. A year after he begay, his college education
was brought to and end by the death of his father, which neccenstated the commencement of the young ter's work at breadwinning. And, perhaps, as often proves to be the case,
winning, And, perhaps, as often proves to be the case,
winning, And, perhaps, as often proves to be the case,
winning, And, perhaps, as often proves to be
really was kinder then she seemed to be, for the termination of
his college wife at just that time thrust him abruntly face to
face with the real opportunity which he advantaged of to his own
benefit and that of all the world, making him femous at an age
much less than that at which most men begin to fashion a success
at all worth while. It seems to have been the mere chance of
necessity which thrust Atlaworth into electricity. But who

For three years he worked with the greatest of the world's inventors at the Edison Chemical Laboratory, and during every moment of that period he increased the worthiness of the record he was doomed to finish all too soon.

Trom the very start everyone in the intense establishment was very found of him, and, better, everyone respected him, which was far more impressive, for to gain respect from men like Edison and those around him one must be en actual producer.

Aylaworth was a born experimenter. Exceedingly quiet,
very unassuming, continually thoughtful, he achieved trady won-

derful results with out sensationalism. From the very start it was quite evident that he never would be a boaster. It is probable that he would have gained through some additional celf-cypreciation. But no man could have a better fault than that.

His working methods were peculiarly his own. Sometimes, even to those who knew him best, and who were most familiar with the problems which confronted him, it seemed that he was laboring along lines certain to be fruitless, but his splendid record, which how is being totalled up, ea records are, after those who make them have passed on, shows that this occurred less frequently with Aylaworth than with most men.

The reason for this frequent wrong impression is not far to seek and in it lies the evidence of one of his unique characteristics. Not infrequently he aimed for the purely negative during long periods of experimentation, and the ability to-do-this is as valuable as it is unusual. These brains are very rare which permit their owners to strive constantly for Forementals to disprove the usefulness of an idea or material, in-a-task which must be done. The process of elimination, highly valuable as it is, is the most tiresome and discouraging of scientific processes. In conversation but a few days after Mr. Aylsworth's death Mr. Edsion remarked:

"An experienced explorer may select a path, when he seeks to climb a mountain, the choice of which will much astonish a

mere hypers anateur. He may takers that which seems to lead
him downward and around, rather then upward and across, where
he desires to go, for it very well may be of vital value to
him to discover what roads to not go to the top. That knowledge
more than anything other, will guard him end his successors
from mistakes in future Pursuit of what, to the inexpert eye,
may seem to be a hopeless route, may lead to the discovery of a
short cut. The explorer who proceeds successfully in this way
may be said to have the instinct of the searcher's task. Mr.
Aylsworth was one of the truly great explorers invitant of new
land in the world of xmixture chemical experiment, and his success was largely due to this unusual quality.

"By following the methods which with him were habitual, that is, by examining every phase, not merely those which seemed most likely to lead to quick solution of the problem which he had in mind, he secured himself against eventual failure him success was mear at hand -- an experience which most investigators know, now and then, to their infinite distress.

"In going from the bottom of the mountain, from A to B, he learned not only every path which led there, but learned every path which did not. In passing on from B to C he worked in the same way, and was thorough in his study of the higher reaches intervening before reaching D. Thus, when he had finished, and stood triumphently upon the summit, he not only knew just

how to get there, but he knew waste as well how not to get there. Knowing the perits of the right paths he also knew the dengers of the wrong ones. He not only was equipped with knowledge which assured success, but he was equipped with knowledge which safeguarded him against disaster in the future. When Aylsworth once accomplished a result he always could duplicate it en indefinite number of times, and always could do this knowledge that it is a safe and always could do this knowledge that the safe and always could do this knowledge that the safe and always could do this knowledge that the safe and always could do this knowledge that the safe and always could do this knowledge that safe and safe

"His work as an experimenter in the maintain manufactory of cupied it nine years. At the end of that period he begun work for himself, continuing his brilliant record, but, presently, handicapped by kidney trouble.

Ten years ago he rejoined the Edison forces, first recuperating for a period at Mr. Edison's own place in Florida.

"Go down there", said the great inventor, "and live on a milk diet. That will fix you up".

Unquestionably this procedure did prolong the life of Mr.

Aylsworth, but after the first break-down it was necessary

Queen a letter the real term of the should exercise the greatest care. The was compelled

to abandon his position-as en active worker, in the falson on the

to shardon his position as we active worked, in the Missey of the Commentation of the

Mylsowrth

to do -- he never learned borm drink at all, he never learned to do -- he never learned borm drink at all, he never learned to smoke excessively and he never learned how to speak ill of anyone. The first two conservations lost him no real friends and the least samed made him many. Indeed it may be said that this perfectly developed quality was notably responsible for the fact that he was universally beloved by those who knew him.

There have been few men with whom Mr. Edison has been able to work more successfully or with greater personal pleasure from the close contact which co-work brings about between two men.

Whenever Mr. Edison found himself confronted by a task involving chemistry in a high degree and requiring the pttention of a directing mind for each one of the twenty-four hors, he was rather sure to send for Mr. Aylsworth, Thon Mr. Aylsworth's services were of truly great importance, for he, too, could do with comparatively little sleep, (an-ability for which Mr. Edison is famous) and this permitted him to watch events with a minute and perfect understanding while Mr. Edison snatched what a quelitimes of slight rest he grants himself on such occasions, at the same time Relping in many other definite ways. For example, while was carrying on Mr. Edison, himself, senducted the principle investigations, accomplished much through his abelity or as Exp to 4 40 Mr. Aylsourth frequently explored side lines, being ready, when Mr. Edison required it, with absolutely authentic data

Aylaworth

upon which Mr. Edison not only could proceed but frag upon which
he frequently could base final conclusions. It is doubtful if
two men ever worked together more harmonicually in chemical experimentation than did these two.

Miller Reese Nutchison paid htm. a little tribute at the Edison Laboratory in a conversation which occurred a day or two after has his death was reorded. Said Mr. Hutchison:

"I became acquainted with him in 1901 said Mr. Hutchison when I was at work for Mr. Edison upon the accusticon, an instrument designed to aid the deaf. Mr. Edison was very busy and when I went to him doe information about carbon he referred This while recentled to great me to Mr. Aylsworth. I was anazed by the minuteness of hads knowledge and scarcely less so by his williggness to help me. I believe he felt, in helping mem (and many others who went to along Bears. y lines him, as I did, after exactly accurate information) that in helping me he helped the cause of science. That The consciousness that he was doing that was very often quite enough reward du lin part () for excessively hard and perfect works. But by this I do not mean to indicate that he ever was unready to help anyone, no Generally of the matter what their difficulty might be. The mere fact that anytorulist Right wearth in 16 one was troubled, or even seriously puzzled, was enough for cause o Aylaworth, when he found it out Forthwith he would drop his own work, quite regardless, even though he might never have set . before the man for whom he did the service. To Jonas Walt

Aylsworth, in an extraordinary degree, service was its own reward. That which wade him while most joyf lly wan the consciousness that he had made another sails. During the four or five years of our close association I found him truly wonderful\*.

"He was one of the finest characters I ever case in con-  $\alpha$ . d(t)(t, (s, t), t) the contract with", said-Mr. Edison, "Not only was he a fine experimenter, but he was intellectually lofty and absolutely honest. I venture to venture to declare that all these qualities made him one of the best empirical experimenters I ever have known, and he was as hard working as he was able. For years he worked eighteen hours a day.

"During the last few years, when his laboratory was behind the name house, this fact encabled him to devote mayo hours then ever to experimentation and these hours were fruitful. Among other of their chievments was the discovery of a process for the making of Condensite, and a company now is in existence which purposes to supply this product to many industries.

"He also perfected and commercialized chlorinate hydrocarbon waxes."

Here Mr. Edison are an interesting sidelight upon the character of this great chemist and on the characteristics neccessary to success in many scientific fields.

"Aylsworth worked with me for years", said he, "upon the

task of perfecting my alkaline storage battery. There are so many splendid things to record about this man that it is not unfair to state, in this connection, that here he found it quite impossible to keep on with the job because of the continuous disappointments. Perseverence through an indefinite period, marked by the use of every method which erdinarily had brought in other Trapes success, yet without the slightest sign of winning, was too much for him. It dashed his spittits and impaired his working capacity. It was this that made it necessary for him to quit. But he didn't seek a task involving slighter effort. It was not hard work that galled him, it was work which seemed to be entirely hopeless. It after this experience that he took up and carried through to a siuccessful conclusion his experiments with Condensite. In considering this episode it physical strength must be remembered, also, that Aylesworth's mtrangthransmatraxz was never great enough to force his body into keeping step with his alert, ambitious mind. It was more his missix body then his mind which balked at months of utterly resultless labor. This made it impossible for him to take my point of view that when a chemical experimenter gets where there is absolutely not the slightest hope he has struck that spot at which things are absolutely sure to happen.

"Ha Like all men who delve into the mysteries of chemistry, as he did, he met withrawain many accidents, chiefly of

occurrence.

an explosive nature. He was as quiet after an explosion as he was before one. One day, after one of those episodes to which the standard for the control of the separaters are subject, poor Aylesworth was all in and I was pretty well barged up. We had been working with invaluation and, while I had only reached the tennestage, he really had had a close call, being at the far end of the laboratory, while I was near the door at the time the glycerine caught fire in the still, and 3c, as a succept, the face of the laboratory of I work and the still, and 3c, as a succept, the face of the subject of of

AT a Hockeymanian

"He seemed to be entirely free from all objectionable characteristics, and he had as many-admirable ones as any man I ever knew. He was not concleted, he was not jealous, he was strictly truthful. He was a Man. His was a sporadic case of entire decency. They don't happen very often. He left behind a lit le monty but not much. Such a man never can hope to cope with average, latter-day commercial conditions. But if he left behind him but a little money, he left behind him a great fortune in the respect and admiration of his fellow men".

He was one of Mr. Edison's assistants in the experiments which led to the perfection of the Fluoroscope. Almost every possible combination of available chemicals had been tried,

small basket.

(10.5) His first work at the Edison Laboratory was in commection with the carbon filament for electric lamps. At that time bamboo was being used. Mr. tylescouth Aylsworth performed for Mr. Edison many of the experiments leading to improved carbonization, and, later, to the squirted filament.

He then began the manufacture of filaments, working for

himsel's. He was much conused by the gossip of the neighborhood
which saw great quantities of material going to the little factony and noted that the daily product was taken from by in a

He was also concerned with the development of the polded phonographic record. Previously singers and musicians had

performed to the phonograph, or to gangs of phonographs, attack, and the direct records of their wok had been sold to the public the direct records of their wok had been sold to the public the direct records retriked results as its particular that the contract the contract of th

The molded phonographic record, which permits the reproduction for an indefinite number of times, of the first, or master record, has marked a great advance.

Aylaworth frequently had much quiet fun out of the effect of scientific mysteries on the lay mind. When the fluoroscope was first perfected a good deal of amazement was expressed at the laboratory when a key was shown through a thick Bible, but presently Aylsworth produced a box, and, to the astonishment of the observers who applied the fluoroscope to it, its revealed contents walked about. It was uncanny. Ne-one guessed at what it was. It was a kitten, but, of course, nothing but its skeleton was visinle through the fluoroscope. Monday it, the perfection gratical when one ofthe tor was the perfection of Condensite, which is one of the mater-Extensionale ials used for the production of the Edison phonographic records and which is extensively used in electric insulation, especially on large transformers, where it has proved to be themost perfect of insulating materials, will (alesse / Kondect to

In his youth the marvels of the chemist's art impressed that which the ward of parting Explainmentally which would turn black under gas. He figured out a means by high thick the world turn black under gas. He figured out a means by high that the property could be used in the performance of a stage trick which he felt war married mystify the public. The magicien, exhibiting to the audience a perfect by white man or boy, would be able, he assumed, to wave a wand and apparently make the white man turn into a negro. The wand, of course, would really be a pipe from which the gas wer emitted and blown at

the prepared skin surface.

He made an appointment with Herman, the magician, and containing the magician and started to keep it with a bay, containing sulphuretted hydrogen, the receipt and the way he had a bay to the made the way he had a bay to the made the way he had a bay to the made of the world that the way he had been a bay to the made of the world that the way he had been a bay to the immense distress of fellow travellers, who left his neighborhood whenever they could do so., and as quickly as they could.

It was arranged before hand that his companion (Mr. Meedowmetter from in here or little to the first in here or little from the first in here or little from the first in here or little from the first in here they had come into the resence of the great

magician and were ready for the demonstration. The hand at

magician and were ready for the demonstration. The hand at

magician and were ready for the demonstration. The hand at

magician and were ready for the demonstration. The hand at

magician and the fortunes of beth aspiring geniuses, would be

immediately-made.

It dishot work out very walk, however, for the bag, when pressed, is modified burst and filled the theatre with and indescribably vile odor which every effort could not get-entirely activate better than out of the thanker before the evening performance Latter (a)

Aylsworth immediately disappeared and then his companion, getting to the street at a speed a little less than his, looked about for him he could not find him. Angry the disconfitted assistance at the great transformation trick started for the ferry. Presently he saw a figure sitting weakly on a curbstone laughting whither. It was Aylsworth.

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Day do not like to sen

Dear Bir.

appropriation of the work and its for which France is so solendialy struggling, and of the self) morifice and national unity with which sho in maintaining her affort to protect the ideals she too in common with America, and the freeduc of the world from militarism and descrition.

I shall be embling on the worning of the nath so us to secure publication in our icous of the lith which or per will remember to the Hotianal pay of the Remublic.

You - very sincerely.

Memorandum from George French, New York. Sheet No.

Glen Ridge, N. J. July 17, 1916

Dear Mr. Edison

My friend, the editor of The Designer, is having prepared interviews with a number of notable men, such as Mr. Vail, Mr. Vanderlip, touching upon the problems of the young.

The Designer is one of the Butterick journals with an enormous circulation, growing more and more enormous all the time. The editor wishes to interest mon in it.

I have written scmething which I wish you would read, and if I have sensed your ideas rightly authorize me to send it in for publication. Nake such changes as you desire. Or if it is not to your liking, let me know that.

I hope you will indulge us in this; and I am

Very truly yours

Mr. Thomas A. Edison West Crange, N. J. Jan har of real live of the forther

HARRY SHAW, Editor and Massager



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Sept. 7. 1916.

Lay these pies notice

Thomas Edison Laboratory, Orange, N. J.

Mr. Meadewood

:

Attention - Superintendent.

There has been brought to our attention recently several press pottons.concerning a new and late invention under the direction of Thomas Edison for a substitute for guideling to out approximately of per gallon.

I would appreciate your furnishing me an authoratic report to the same which might afford our publishing in verbatin in our October issue and special convention issue of the Oil Kews.

Thanking you for any news that you may give me, and trusting that I may have the pleasure of an early reply, we are

Yours very truly,

V Edison Him OIL HEID Resalt

report? august meubouroup

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ntific American York America Philadelphia Inquire nati Times Star t. Louis Post Despatch Popular Science Monthly Bidre Illustrated Magazine Philadelphia Public Ledger Export American Industries telphia North Ameri ---

Day OK. after get knock from washing ton Tr. Thos. A. Orange, N. J. Dear Sir .-

Under date of July 27th, we were advised you might be willing to allow our photographer a few minutes to make some photographs of you for publication in our papers when you had returned from your camping trip.

If you can allow us this privilege we shall appreciate it and shall be alad to send our Mr. Wredericks at any time you will name. The Editor of Collier's Weekly is after us to get these pictures for use in Collier's and we have other demands for them.

> Yours very truly. Pross litestrating Service, Inc.

September 18th.1916.

Press Illustrating Service, Inc., 142 West 25rd Street, New York City.

### Gentlemen:

Your favor of the 14th instant has been received.

T. Edison Emergence to cachington to be offermeon to attend a meeting of the Laval consulting Bourd, and Wichon as to cay that after his return he will give your photographer a few minutes as requested. Mg. thinks it would be well now to leave it until nort tool.

at the segimning of next week, you might communicate with me.

Yours very truly,

Assistant to Mr. Adison.

Ukrgemann

Chicago, Sept. 14, 1916.

Mr. Thos. A. Edison Wangerman went to Germany Orange, F.J. + did carry with him a harge number of receased which he played for Beamonth the later of the later of Ruman

I have been asked to continue an article for a mistenl publication with reference to honograf reports for the violing. Different the local form of the violing publication with reference to honograf reports for the violing. In the first experiments and late pertaining thereto.

I played into a phonograf at the regulat of your agent - Mr. Wangsmann - and the music I played was part of the unaccompanied Chaconne by Bach. It was intended that the record should be reproduced at the World's Exhibition in Paris and also be brought to Germany for Bismarck's attention - so the agent told me. I don't recall that this was ever done, but as the first phonograf trially (for the violin) is of importance in my article I should greatly appreciate any details as officially recorded by you on this subject.

With every assurance of my highest esteem, I am

Yours sincerely -

Beanhourd Listemound.

611 Fullerton Parkway, - Chicago, Ill.

362

Editorial Dept.

J. M. C.

I should like to have just a few words from you on the importance of sawing, what it means not only to theorems but to the character of our youths to practice thrift.

Even 50 or 60 words or 100, will names the purpose a direct sentence or two, as I fact or 20 sets it, will coan much to the wants of those who are to be the command occase of tocorrow. A few words or to rout, commanded the coant of the form are. The summanded is the rout of the coant of the form are. The summanded if for rout.

Could you send this for me in the course of the next week if possible? Tith cordial best wishes, believe me,

Yours sincerely,

for autolicis Oupper.

CHAS, W. BLACKHAM.

SPACE TO SWETLAND

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PRESIDENT

CHAS, W. BLACKHAM.

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DAVID BECGROFT
DIRECTING EDITOR

Who only was the Hamister Co truck is the the found of the White bruck was well of the White bruck was well of the Malson Storage Battery Co.,

Orango, H. J.

Attention Irr. Handowroots,

General Manager Edison Communica

# Gontlomon:-

We have in our possession a photograph of the Krobs truck used to carry the supplies of Mr. Bitson on his trip to the adirondacks with President Pirestone of the Firestone Rubber Co., Henry Ford and John Burroughs.

we would like to publish this picture provided you could be added as these we also removed outline of the tips of the purpose and more particular information requaling the outline of the twock including the rottle in mileage covered, the time communed and any other incidents regarding the vehicle during the trip. We are

Yours very truly,

THE OUTSERGIAL VESSIOLS

Associate Editor.

Jimson/SC

(5b0)

DALE CARNAGEY STUDIO 824 CARNEGIE HALL NEW YORK gut avei

Sept. 29, 1916

Mr. Thomas Edison, Grange, N.J.

Sirt

If you had only forty-eight hours more to live, how would you spend them?

The Illustrated Sunday Magazine is asking a few prominent persons to answer that question for their two and a half million readers.

We should be delighted to have you answer this in any mood you desire-- humorous, serious or gay. Very truly yours,

DC-P

Alebarnagy.



The Edison Storage Battery Co., Orange, N.J.,

Attention Mr. Wm. Meadowerof

Gentlemen: -

and note that you state that the Barrester Co.'s truck
was used for the first two days of the trip only, and the

to be a Krebs motor truck. Was any Krebs Truck used?
We had no knowledge that a White truck was used, and would be pleased therefore if you could farmish us with any information, clipping or other data minimum that the same that we will be the same that they can't and in short a brief summary of the work. We are

Yours very truly,

Associate Bil tor

JH:JM

(670)

MORNING EVENING

SUNDAT

THE.



BALTIMORE, MD.

Mr. Thomas a. Edicar Deloker 6,19/6 Freel Grange, Ag.

Dear Sir:-

The following inquiry has been referred to the "Answers" Column of the Crening, Cur:

When was the first motion furtier chown in the kniled

What hat tong

If you can furnish this information, I shall appreciate it very much.

Gratefully yours, The A. A. Albelle. Jo. Editor, "Answers."



BRANCHES:

New York: 347 Fifth Avenue Chicegos pão Peoples Gas Building

"BUILDING THE WEST" 1211 WALKER BANK BUILDING SALT LAKE CITY, UTAH

Six Years

October 9, 1916

Thomas A. Edison East Orange, New Jersey

Dear SIT!

In cooperation with the Society for Electrical Development we are issuing a special number of The New West Magazine announcing the event in the West--officially.

We are sending a letter similar to the attached carbon to the presidents of eleven state federations of women's class, to the president of the eneral Federation of Women's clubs, and to the governors of the fleven western states, asking their endorsement of the Week.

You will note in the latter part of the letter to the club women we are asking them "to honor Edison in some way for his inventions."

Inasmuch as several thousand of the club women visited your home last Spring during the Biennial, and as this magazine is the Western exponent of the club-women, we will much appreciate the favor if you will send us a photograph of Mrs. Edison and also of your home, and any other pictures you think will interest theomen of the country.

If you care to say a few words to them, we will be very glad to publish your message--and it will be most effective in arousing them to the observance of America's Electrical Week.

We are sending you a copy of The New West Magazine for December, 1915, which quotes you on page 36, also a recent number of the magazine.

Very truly mrs. Martha Spangler

Western Club Woman Department The New West Magazine

Editor

# [ATTACHMENT/ENCLOSURE]

Cotober 7, 1716

Bro. H.s. Morgan President ASP C Willcox, Arizona

Lear Fro. Forgan:

2 to 9, and it will be observed .coember 2 to 9, and it will be observed .coember 2 to 9, and it will be undoubtedly the biggest national sweet of that kind over held. You seevent otyrted hat year with "leverted iron-partly book" and you will recease how widespread what wan, 'resident illean words a letter of endometers, will also, when has not obtained the seed of the company of the seed of the company of t

The Society for Alectrical Levelouent, with hexageurters at rew York, in directing the celebration, and it has arranged with five national magnaines to issue special editions amnouncing the Beck. These publications are: Gollier's, Leslie's, Scientific American, Scribner's and The New seel Pagnaine.

The first four are New York publications, leaving the New Lest Lagazine alone in the western field.

The mattern journals will issue their special numbers just prior to the week of the celebration, while the Bow Seet Sigazine will sake the announcement in the jovember number, which will appear about three weeks before the orest. This puts no Bow Seet Agazine THE in the field, so that the Nest will have the honor of making the II. 4 official no execute.

As the West is the home of big electrical development—the country where the 310 things are done—we want to make this number truly representative and a credit to the West.

The Gotlety for Glottrian Levelsyment has given the New Yout Lagazine the privilege of reproducing the "LigoDo Trize poster is colors on the front cover, while the articles, stories and illustrations will be lagely on things electrical.

We are anking the presisents of the state federations of wesen's clube west of the Secky mountains to send us a latter velocing thir approval of America's Meetrical Week. Mrs. Josiah Mans towkes, president of the General Folderation of Women's Clubs, is also asken to give her endormement. The governors of these eleven states are asked to give their official recognition. These letters, with pictures of the writers, will be published in the November musher of The New Yest

Will you send us a letter along these lines, mailing it not later than Cotober 15. Also send a photograph of yourself,

# [ATTACHMENT/ENCLOSURE]

Mrs. HAttorgan--2

We have asked the Society for Electrical Development to send you the "Story of the Week," which tells about Electrical Prosperity week last year, and also contains President Wilson's letter of endorsement.

Will you ask your clubs to include some observance of the Week in their program on the dates mentioned? Ask them to honor Edison in some way for his electrical inventions.

We are sending you under separate cover a copy of the becomber number of The New West Engazine, which tells about Electrical Prosperity Weck last year. Your especial attention is called to page 36 where Edison is quoted.

For the club program it is suggested that they might have a talk on electricity by the manager of the local power company, telling what electricity has done for the farm and home. Electric lumcheons, electric dimers and electric dances may also be featured.

We will also appreciate the favor if you will send us a copy of your year book for our files.

Thanking you for your cooperation, I am

Sincerely

Editor Western Club Woman Department
The New West Eagazine

200 h t 700

g, IL. WIISTON

"THE GOVERNMENT CLEEK" TOPICS OF HUTUAL INTERRET

#### THE GOVERNMENT CLERK PUBLISHING CO.

723 TENTH STREET NORTHWEST

WASHINGTON, D. C.

October 12: 1916.

Mr. Thomas Edison, Orango, New Jersey. Layly it would be out A place for me to conte

My dear Mr. Edison:

ment service in Weshington is clogged with a large number ment service in muningson is clogged with a large number of supermonted employs who are really number to the control of the co wood" on their hands.

Since the argument has been used by congressmen that the folks "back home" are opposed to any retrement measure offecting government engloyes, may I ask you to state in writing your opinion on this subject. I have clready heard from a large number of prominent men throughout the country, and without exception, they agree that it would be an economic proposition for the government to put these aged employes on a small service annuity - simply enough to keep the wolf from the door.

I shall anticipate the pleasure of an early reply from you on this subject.

Yours very truly,

October 13, 1916.

Mr. Charlos W. Prico, President, Electrical Review and Wostern Electrician, 13 Park Row, New York City.

My dear Mr. Price:

In accordance with our telephone conversation this morning, I am enclosing you a brief interview with ir. Edison, which I trust will be estisfactory for your murross.

With kindest regards, I remain,

Yours very truly,

# [ATTACHMENT/ENCLOSURE]

A representative of the Electrical Review and Costorn Bootrical colled on in Rison a few days go of brenge and was undered about the maintain laboratory there he found his bush all controls the maintain the control of the strength of the control of the control

steined hand to the visitor, who offered his congressionations on the forthcoming thirty-coventh Anniversary of the birth of the Incendecent ison, and eached him if he found any time nowedays to work on large. "No, said in Mailton, I have been striping to only the most of the bern inner the beginning of the bern, I have been striping to one of the bern in the best of the bern in the best of the best

the Delion who caled that further developmenticials could formes in the intensience them. He would "Bread" to to hard here a sut for me to erack off-hand, but I's" chink the end of this development is in algeby yet, are twould not be supprised to see a hundred ory more standard longs to the libros-power brought out you.

The visitor expressed the hope that in. Edison would see many more Anniversaries of October 21st, to which he replied, "I am expecting to see fifthen or trenty more at any rate, and hope a lot of the 'old boys' will twell along. Give them my rood wishor.



# THE NEW WEST MAGAZINE

BRANCHES: New Yorks 347 Pith Avenue Chiengos 360 Peoples Gas Building Portlands 409 Lumber Building 1211 WALKER BANK BUILDING SALT LAKE CITY, UTAH Six Years

October 18, 1916

Mr. Thomas A. Edison Orange, New Jersey

Dear Sir:

Attached is copy of the regolution passed last week by the Idaho State Federation of Women s clubs, in re America's Electrical Week, in which your name is especially mentioned.

The same resolution will be introduced this week at the Utah Federation meeting.

We are also enclosing proof of the November cover of The New West Magazine.

would also call your attention to our letter of October 9, in which eached for a picture of Mrs. Alson and your home, for publication in this number, together with a few words of greeting from you to the club women of the West. If you have not already laked after this, will you do so as early as possible. We must go to press in October.

It may interest you further to know that the Idaho Federation met in Bert Perrine's home town, Twin Falls.

Very truly

- Atimitae Alia

RWS/S

# [ATTACHMENT/ENCLOSURE]

Idaho Club Women Endorse America's Electrical Week

At the sixth biennial meeting of the Idaho State Federation of Women's Clubs held at Twin Falls October 10th to 14th, the following resolution was unanimously adopted:

#### A RESOLUTION

Be it resolved: That, Whereas, a nation-wide celebration of America's Electrical Week has been set for December 2 to 9, 1916, in which all the people of the United States are asked to participate, and

Whereas, Electricity is bettering life in all its complexities by reducing toil, thereby raising men and women to a higher sphere of activity, and

Whereas, the West is the home of big electrical development--where the greatest progress has been made, and

Whereas, Electricity has done so much to lighten the labor of women, now, therefore

Women's Clubs, in convention assembled, do hereby set aside the week of December 2 to 9, 1916, for the observance in some manner of America's Electrical Week, and we urge upon the members of the Pederation that they participate by so arranging their club programs that week to include Electricity as of the subjects to be considered, and pay tribute to Thomas A. Edison.

The Idaho State Federation of Women's Clubs has a membership of 75 clubs with a total of about 6,000 members.

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The Edison Laboratory, Orange, N. J.

Dear Sirs .-

Do you think it would be possible for or. Edison

to give us a minute or two at this time to permit our photographer to make a few photographs of him in accordance with our recent request?

we shall be greatly indebted to you for anything you can do for us.

Yours wery truly,

Press illustrating Service, Inc.

M. Edward and and familiation ()

H. W. SHERICHS, Pres.

Aress Illustrating Service, Inc. PHOTOGRAPHS FOR PUBLICATION

Offices and Studios 142 WEST 23rd STREET NEW YORK

JAY, W. PREDRICKS



# DRY GOODS ECONOMIST

231 WEST THIRTY-NINTH STREET NEW YORK.

PLEASE REPER YOUR REPLY TO

October 20th, 1916.

Maxwell-

Mr. Moore, c/o Edison Co., West Orange, N. J.

My dear Mr. Moore:-

Day Troil Dec Walson oned ank on those

You will no doubt be surprised to hear from me, but our pleasant acquaintance on board the boat coming from Portland was so interesting, I sincerely trust that I may have the pleasure of meeting you again, as you already know I am very much interested in the phonographs and talking machines that your company is Traceller here the dayher producing.

I wonder if you bould help me to get an interview with Mr. Thos. A. Edison. I consider Mr. Edison one of the most Mr. Thos. A. Silsen. I constant ur. Misson one or the most wonderful men of the may and I would like to have the honor of a personal interview with him. Not that I wish this interview for publication, but may sometime of the workings of his new inventions in the talking machine and of the workings of his new inventions in the talking machine and I would also like to bring to your attention the work that the Dry Goods Economist is doing to help the phonograph and record trade in our particular field, the dry goods and department stores.

I am sending you under separate cover a copy of the Dry Goods Economist and enclose herewith several articles on talking machines, that have appeared in recent issues of our paper.

Awaiting your favor, I remain,

Yours very truly. DRY GOODS ECONOMIST. Mr. Edward chell on morning. WAW/JIF.

ENC.

# [ATTACHMENT/ENCLOSURE]

DRY GOODS ECONOMIST 201 WEST THIRTY-NINTH STREET NEW YORK.

R. S. THHIATS,
EDITOR O. DEPONENCE: PROME \$5000 BUYANT

DRY GOODS ECONOMIST 231 WEST THIRTY-NINTH STREET NEW YORK

W. A. Watson

PHONE 4000 BRYANT

# [ATTACHMENT/ENCLOSURE]

Reprinted from the Dry Goods Economist of August 19/1916. (Copyright by the Dry Goods Economist.)

# Points in the Handling of Talking Machines

No Advantage in Cutting Prices—Effect of Manufacturers' Restrictions on Retail Selling
—Important Facts to Consider in the Choice of Machines—Weigh Their Merits Carefully

young—so young that it has not yet out—ment goods."

Hence, there are opportunities for big sales and profits for the dealer, just as there always are in any new and thriving line.

Of course, there is more risk in the business than in one that has reached the staple stage, and more thought must be given to the department now than may be necessary later. But the opportunities offered are so great that the risk and effort are well worth while.

One of the "growing pains" of the talking-machine business is the question whether or not the retailer shall adhere to the retail price fixed by the manufacturer.

#### Don't Cut Prices

For the present, at least, there seems to be no sound reason for price cutting. The talking machine is an easy-payment rather than a cash business. The people who buy these machines seldom want to pay down \$50 or \$100. Even people with ample bank accounts buy more readily on the partial-payment plan.

It has been amply demonstrated that when the customer is not paying cash for an article the question of price becomes of secondary importance. The so-much-amonth idea looks so easy that Mrs. Jones, who would hesitate to pay \$25 in cash for a talking machine, readily agrees to pay \$100 on the so-much-down-and-so-much-amonth basis.

### An "Easy Payment" Industry

The only reason for a retailor's considering the selling of machines at less than the manufacturer's fixed price would seem to be his desire to sell on a cash basis. And up to date selling for cash has not basis. And up to date selling for cash has not extended with any great degree of satisfaction to the retailors who have made experiment. Most cash-store owners, indeed, most cash-store owners, in the cash-store owners, in the cash-store owners, in the cash-store owners, and the cash-store owners, in the cash-

EDITOR'S NOTE—This is the third in our series of articles on the talking machine situation and outlook. Further discussion of the subject will be presented in an early issue.

The talking-machine business is still which has become established as "install-

# Contract Restrictions

All these facts are more fully realized, perhaps, by the older talking-machine manufacturers than they are by some relatilets. And in the endeavor to protect their own interests, as well as those of the retailer, some of these manufacturers have gradually developed sales contracts which are "fearful and wonderful to behold." Another evidence of "growing pains." No industry which was not busy getting its growth could or would be sewn up in such contracts.

up in such contracts are one of the "hazrids" of the business, to borrow a golfing term. Although probably drawn up originally for the purpose of maintaining prices, they also contain clauses which appeal strongly to the manufacturers because they afford convenient forms of protection against competition.

For example, one such contract provides that no record except that made under certain patents may be demonstrated on that company's talking machines; also that the retailer cannot sell this particular talking machine; all he can dispose of is: a license to the consumer to use if for playing the kind of records stipulated. This practically means the company's own records.

# An Odd Situation

Of course, under such conditions no purchaser can insure the machine he thinks he owns! How's that for "growing nains" in an industry?

Such conditions will right themselves soon enough. In the meantime, the dealer must take them into his calculations in starting or expanding his talking-machine department.

There are two courses open to him: 1, to tie up with the older machine and record manufacturer; 2, to select machines in the open market and handle them in his own way.

Each course has its advantages and disadvantages, and the merchant must decide for himself which best fits in with his general business plans. Consider each case in order.

The advantages of handling the older makes of machines are that the reputation of the goods is established and the merchant is assured of a profit from the sales of records, as well as of machines. This latter is an important item.

The disadvantages are: that, in many cases, the retailer now entering the field will find competing stores atready handling such machines; that the wide distribution of the goods supplies numerous competitors; and that the retailer is practically barred from featuring any other make of machine or records in his talking-machine denartment.

### Advantages and Restrictions

The advantages of featuring the newer makes of machines are that almost without exception these are made with attachments which enable the owner to play any type of record, that the dealer is free to buy machines as he buys his, other merchandise (without restricting contracts), and that he may demonstrate and sell any records he chooses to buy.

The disadvantages are that the newer makes have not yet had the opportunity to establish a national reputation, and the difficulties encountered in establishing a record department on a satisfactory ba-

In our issue of July 15 last we explained something of the record situation. It can be briefly summed up in the statement that although there are several thelegated by the state of the state of the state and more entering it, the vest pulse of all talking-machine records are still being made by manufacturers in the field, and the state of the state

Lis not the province of the Economists to decide for the retailer which course offors the greater advantages. But it is our province to warm the merchant that he ought to weigh carefully the merits of the machines he selects, and that he should avoid collecting a few machines of each at the selects and that the should avoid collecting a few machines of each at the selection of the selection o

## Collection Corps Turned Into Selling Force

When Talking Machine Customers Resent Collector's Call Ingenious Retailer Develops New Method of Approach—Jacks Up Delinquents and Sells Machines and Records

"The system we started for the following up of delinquents has become one of the most valuable adjuncts of our sales promotion work," recently remarked the talking-machine buyer of an Eastern store to an ECONMIST staff member.

"When the war broke out," he continued, "our collections slowed up to such an extent that we considered it necessary to follow up the delinquents by personal calls as well as by letters.

#### Customers Resent Collector's Call

"So we selected two intelligent women for this purpose. We thought they would solve our collection difficulties. But we soon found that our new plan was stirring up a hornet's nest. The class of people to whom we were selling talking machines resented the call of even the most diplo-

matic collector.

"But objections didn't help my collection showing. I simply had to get the money. So, when I saw my pill was too bitter to be swallowed I decided to sugar-

#### Finding Point of Contact

cont it

"I fired my collectors, and hired them again as a 'service corps." In other words, when I sent my two women out to see the delinquents I furnished them with little grips containing the newest and best records, and with instructions to use those records for testing the customers' ma-

records for testing the customers machines.

"The ostensible business of these women was to see that the talking machines we had sold were in good order and giving satisfactory service. Of course, on such a mission they received the most cour-

## teous consideration. Women Always Ready to Listen

"Now, you might think that the average housewife, being busy with home duties, would leave our service expert to do



Our collections have slowed up.

her testing and would go about the housework. But we found that not one woman in a hundred will leave the talking machine as long as our representative continues to play new records. Moreover, it

soon developed that many women were so pleased with the visit and the opportunity to hear the new records that our service women found it an easy matter to take orders for one, two, and in some cases a dozen records in almost every home they visited."

"But what about credit?" the Econo-MIST man asked. "You started this plan to jack up delinquents, didn't you?"

#### Helped Collection Showing

"That's what we started it for, sure enough," replied the buyer, "and it was entirely successful. How to handle each case is a matter left largely to the discretion of our callers. Being on the spot, she can size up the situation, and judge whether or not it is wise to bring up the matter of collections at the time. If she decides in the negative, then we acknowledge the customer's order when she turns it in and also call attention to the overdue account. In a surprisingly large number of cases the customer is so pleased with our 'personal service' that we have little further difficulty in keeping the collections up to date.

"Indeed, whether our service women make a sale to a customer or not, the call



Not one woman in a hundred would leave the

itself almost always has a salutary effect. In many instances, payments on back accounts reach us within a day or two after

#### Sells Machines Also

the call of our service corps.

"As I told you, we started with the idea of following up delinquents. We soon found the plan so profitable, however, that we followed up all our customers.

"Of course, our service women occasionally uncover a real complaint. Consequently, this calling on customers has made a little more work for our repair departments. But we are glad to know of

any case where one of our machines really needs attention, and the extra record sales developed by our 'service corps' pay a mighty nice profit above all expenses of the plan.

#### **Exchanging Cheap Machines**

"As this service work develops," continued the buyer, "it is leading to the sale of machines as well as of records. For instance, one of our women may call on a customer who has bought a cheap machine, thinking to use it for dancing only. When the customer hears a really attractive song reproduced on this machine she



Reawakens the customer's interest.

is often pleasantly surprised at the result. Our representative their has the opportunity to suggest how well the record sounds when played by one of our larger machines. Suggestions of this sort have led to a number of small machines being exchanged for more expensive models.

"Again, in some bomes the talking machain, particularly if it is one of the cheaper models, may have been relegated to a borth under the table, or, worse, on the closet shelf. The visit of our representative often reuwkens the enstoner's interest in it, and, if it does not lead to an exchange for a more expensive grade model, at least opens the way to the sale of new records.

#### Get Good "Leads"

"In a number of instances, too," continued the buyer, "eustomers have been so pleased with our attention that they have given members of our 'service corps' cards of introduction to live prospects. In these cases, machine sales have been developed with very little effort on our part.

"So, you see, what started as a means of following up delinquents has developed into an important part of our sales promotion system."

## How to Handle Talking Machine Repairs

What Dealers Should and Should Not Expect of Manufacturers-Importance of Instructing Consumers in the Right Use of Machines

need an occasional adjustment has yet to be invented. This is true of the talking machine as of other devices-automobiles, for instance. The finest automobile made needs more "tinkering" to keep it in running order than does a cheap talking machine. The talking machine is so nearly automatic, however, that many dealers, and the majority of consumers, overlook the fact that it is, after all, a delicate, though durable piece of mechanism, and may at times be put completely out of commission for want of some slight adjust-

ment. Some years ago, for example, when the big talking machine companies began to export their products to South America, they encountered considerable trouble, machines being returned with which there was little or nothing the matter. Some dealer - in Buenos Aires, let us saywould return the machine to New York because a governor spring, 2 in, long and weighing a fraction of an ounce, had broken. The dealer did not know what it was that caused the trouble so he sent back the whole machine, weighing perhaps 100 lb., at considerable transportation cost and at the risk of serious damage in the course of the trip.

#### Some Dealers Thoughtless

With the big increase in interest in talking machines on the part of the dealers-particularly department stores-instances of more or less similar character are becoming quite common in the domestic trade. We could cite offhand a number of instances of machines, which merely needed some slight adjustment, being returned to a factory, perhaps 1,000 miles away. In one case it required less than ten minutes to put in perfect condition a machine which had traveled 1,500 miles with all the accompanying freight charges and risk of damage.

This is not fair to the manufacturer. nor is it satisfactory to the retailer. Moreover, it can very readily be avoided. The first step in the right direction is for the head of a store's talking machine department to thoroughly understand, the machine he purchases. This is no difficult

#### What the Buyer Should Know

We have already explained, in the ECONOMIST of July 8, the various features that go to make up a talking machine, viz., the cabinet, the mechanism for reproducing sound and the motor. There are two main sources of talking machine difficul-

Entron's Nove:—This is the fourth article in our sories on the handling of talking machines and the talking machine situation from the re-tailer's standpoint. The next article will appear in an early issue.

The piece of mechanism that will not ties, the sound box and the motor. Of these, the motor is by far the more important for the retailer to understand, not only that he may know how to make minor adjustments, but also that he may be certain that he is buying the right machine. The buyer of talking machines should insist, therefore, upon having the motor mechanism very thoroughly explained before he signs an order for any make of talking machine.

Moreover, he will do well to have his salesforce present while it is being explained. Then, too, he should appoint one of his assistants, preferably of a mechanical turn of mind, to look after adjustments.

The reason for having the entire force present is that they need the knowledge if they are to handle machines properly, and need it, also as part of their selling argument.

#### Tell the Consumer

Obviously, it is important in the retailing of such a mechanism as a talking machine that the consumer be made to understand that he is not buying a fool-proof chunk of wood and iron, but a machine delicate enough to reproduce with wonderful accuracy vibrations of the human voice. The consumer should be shown that such a machine must, of necessity, be handled with care if it is to continue to do good work. The retail salesman, therefore, after closing a sale, should invariably instruct the customer as to taking care of the machine.

He should show where the motor is oiled and how the sound-box should be handled. He should then explain the one or two minor adjustments that are likely to be necessary. For instance, one of the governor balls may get out of true and cause a neculiar knocking. The customer should be told not to attempt to make the adjustment, but to ring up the store so that it may be attended to by a man who knows how to handle a talking machine motor. If left in ignorance, again, the purchaser may attempt to adjust the soundbox, and a quarter turn of one of the screws will so upset its mechanism as to cause a rattle or make the tone unsatisfactory. Or someone may carelessly take hold of the little vibrating arm of the soundbox, and as this is attached only to a thin piece of mica at one end the soundbox will inevitably

#### May Cause Serious Accident

Some people who feel that they have a mechanical turn of mind may become curious to see "what makes the wheels go round." The customer, therefore, should he warned that this is a dangerous proceeding, that the steel spring which is the basis of the motor is many times more

powerful than the one which he perhaps took out of an alarm clock when he was a boy, and that the unfastening of the spring may result in very serious injury to the amateur mechanic.

As we have suggested above, the minor talking machine repairs should be taken care of by the store's service and repair department. When major repairs are necessary, for instance, the replacement of a broken mainspring, the manufacturer's aid should be sought.

Incidentally, the fracture of the mainspring is not an uncommon occurance, because these springs must be highly tempered and, of course, are correspondingly brittle. When a mainspring breaks it is better to have it replaced by the manufacturer than for the retailer's mechanic, unless he is unusually expert, to attempt to make the repair.

#### Return the Motor Only

It is not necessary, however, to return the entire machine to the factory. Only the motor need be sent back. With practically all present makes of talking machines the motor can very easily be detached, so that, instead of returning a large piece of fine cabinet work, which might be damaged in transit, all that the retailer needs to send back is a small box containing the less fragile steel motor.

#### Follow Up Customers

The necessity for occasionally making slight adjustments of any talking machine emphasizes the value of the system of following up of customers outlined in the ECONOMIST of Aug. 19. In that article we spoke primarily of the value of such work as a means of keeping collections on leased machines up to date. This service, however, also has a distinct value in preventing customers from injuring their machines in trying to correct minor difficulties, neither the cause nor the care of which they understand. It also enables the store to build up a nice business on records and to use cheap machines as a leader to interest customers in the purchase of the more expensive and handsome talking ma-

There is one retailer in a little town in New England, for instance, who some months ago bought a hundred \$5 machines. He has kept those machines circulating in his community ever since, selling a customer one today and next week or next month exchanging it and allowing the \$5 credit to apply on the purchase of a higher priced machine.

A repair department, therefore, if proper advantage is taken of it in following up customers, is not an expense, but rather a means of satisfying customers and of increasing sales.

## Selling Low-Priced Talking Machines as Toys

An Aid in Creating Interest in the Better Instruments-Tone of the Machine Important-Keep Record of Purchasers

tention to the tone quality of the machines Some merchants hesitate about featurhe decides to feature. ing low-priced talking machines as toys. They figure that such a policy will interfere with the sales of higher-priced instrumonte

"Every time I sell a tov talking machine," argued a merchant to an ECONO-MIST staff-member recently, "I kill off a prospect. The toy machine will do nractically what the big machine will do, even if it will not do it as well. Why should I feature \$5 or \$10 machines, when I can just as well sell \$50 or \$100 instruments?"

#### Create Demand for Fine Instruments

Experience has proven this line of reasoning to be faulty. The sale of toy talking machines is one of the best means of creating business for the finer grades of instruments. The toy talking machine, as the merchant referred to reasoned, is unlike any other kind of toy.

The toy plane, for instance, is in no sense a musical instrument. It is a tov pure and simple. Hearing a youngster pound a toy piano never gave anyone the desire to hear a real piano-the desire it usually creates is the desire to run.

The low-priced talking machine, on the other hand, will play the same records as the fine, expensive instrument.

Owing to its small size and cheaper motor, it does not, of course, give as good results, but it does reproduce a record sufficiently well not to annoy the grown folks of the family.

#### Grown Folks Borrow the "Toy"

Once the toy machine gets into the home, as a general thing, the grown folks become quite as much interested in it as the youngsters. They begin buying records, one here, one there, "for the kids," until they have the nucleus of a fairly good collection. Then these grown-ups decide that they want something better than the toy machine for reproducing those records. It is only a step from that decision to the purchase of a fine machine as a musical instrument.

#### Follow Them Up

For this reason the far-sighted store manager insists that a record be kept of all purchasers of toy talking machines during the Christmas selling.

This list of toy machine purchasers should be held until the lull in February and March, and should then be followed up with an offer to allow the full purchase price of the toy machine to apply on the purchase of a fine instrument, provided, of course, that the toy machine is in good condition

Since one of the objects of featuring the low-priced machine is that it shall serve as an advertisement in the home of the customer of the enjoyment to be had from a talking machine, the buyer of toy talking machines should give careful at-

Entron's Note:-This is the fifth article in our series on the handling of talking machines from the retailer's standpoint. The next article will appear in an early issue.

The importance of this is often overlooked Too frequently the buyer of toy talking machines picks his machine as the women "pick" horses at the racesnurely on their "looks." This is a mistake which will cost his house the profit on the sale of many a fine talking machine.

#### Space a Factor

Of course, it is out of the question to get tone reproduction in a \$10 machine equal to that of a \$100 instrument. For among other requirements, space to properly amplify the sound is one of the prime requisites for a good tone in a talking machine. There is, however, plenty of opportunity for the exercise of sound judgment in the selection of low-priced machines.

#### Evamine Motor

Having made sure of the tone quality of the toy machine, the next feature to be examined is the motor. The buver who, in his anxiety to undersell all competitors, glosses over this important piece of talking machine mechanism is storing up trouble a-plenty for himself.

### Every Machine Helps Record Sales

As we mentioned before, in most cases the small machine will play the same record as the expensive instrument; therefore, each of the purchasers of these tov machines is a prospect for record sales. The man who sells talking machines should always keep in mind that when he sells a machine he sells the customer the

privilege of constantly coming back for records. This, of course, suggests the following up of purchases of any machine, no mat-

### ter what its price, with announcements of Carry Low-Priced Records

new records from time to time.

It also suggests the advisability of handling some of the cheaper lines of records in the toy department. There are a number of good records which retail at from 10 cents to 35 cents. These are the ones which the people who buy low-priced machines will be most likely to purchase -at least for the first few months. A man who has paid \$5 for a talking machine is not likely to pay \$3 for a

#### Finer Records Not Affected

This fact has led some merchants into thinking that the featuring of cheap machines and cheap records may hurt the sale of the finer records. Again the facts have shown the contrary to be the case. Even the purchasers of expensive talking machines usually begin by buying ragtime records, but they soon demand better music. The rag-time serves as the kindergarten to the classics.

#### Soon Want Better Music

In the same way, the people who buy \$5, \$10 or \$15 machines for the youngster

begin by picking up low-priced records. Then they hear some beautiful vocal or instrumental record played on a machine belonging to some friend, and they decide to try it on their own machine. It gives a fairly good result. The inevitable result is that they begin buying more of the higher-priced records. Next, having the good records, they want a machine that will give more satisfactory results. This has been the history of the sale of many a fine machine.

Then, again, it must be remembered that the talking machine of to-day is more and more coming to be considered as a piece of fine furniture.

#### The Talking Machine as an Ornament

The woman with the well-furnished living-room is no longer satisfied with the chean little talking machine over in the corner. She wants a fine cabinet that will look as well as any other piece of furniture in the room.

Her toy talking machine is at first only an amusement for children; but soon it is used for entertaining the family. Once the family begin playing the machine they begin to find it necessary to apologize for it to friends, with the result that sooner or later they feel the necessity of getting a machine for which no apologies will be necessary.

#### Easy to Sell

The pushing of the toy talking machines is a comparatively simple matter. Indeed, they push themselves. from the usual newspaper advertising which would be given to any toy, it is only necessary to have the machine played constantly in the department. "Music hath charms" not only "to soothe the savage breast," but to attract the tired shopper. You will never fail to find a crowd around a talking machine that is being played, whether it is a big machine or a

This serves as an advertisement not only for your machines, but for your records in the toy department.

#### One Danger Point

There is one difficulty that must be overcome by the store management in the featuring of toy machines, however. This is: The icalousy which naturally exists between the toy buyer and the musical instrument buyer, or vice versa. What method shall be adopted for overcoming this is, of course, a matter for each merchant to decide. The merchant must make it clear, however, that handling talking machines in the two departments is necessary for the best interests of the store; furthermore, that, to get the biggest returns from the sales efforts, a thorough co-operation between the two departments is essential.

Unlike other toys, low-priced talking machines and records should not be considered merely as toys for children, but as a means of educating the grown-ups to the possibilities of a fine machine for the production of music in the home.

Edison, T.A. - Photographs Regu-

Edward Marshall Fitzgerald Bldg., 1482 Broadway New York City

### THE BIGGEST INTERVIEW SERVICE EVER OFFERED TO AMERICAN NEWSPAPERS

Used by:

The New York Sun The Pittsburgh Dispatch The Los Angeles Times Philadelphia Inquirer

San Francisco Chronicle The Syracuse Herald The New Orleans Times-Picayune Chicago Herald Anaconda Standard

The Boston Post The San Antonio Express And others

October 23, 1916.

Mr. W. H. Meadowcroft, c/o Edison's Laboratory, Orange, N.J.

Dear Sir:

Mr. Edward Marshall, who is now in London, has written asking if won't try to obtain from you two prints of the photograph which was taken a year or more ago, comprising yourself, Mr. Edison, Mr. Ford, Mr. Marshall and possibly one or more others standing on the steps of the Laboratory. One print he asks me to mail at once. The other he would like very much to have autographed by you and Mr. Edison, then sent to me, and by me sent to Mr. Ford for autographing.

I know Mr. Marshall will be greatly indebted to you if you can conveniently grant his request.

Yours very truly,

## DAY LETTER

orm 2007 A.

## THE WESTERN UNION TELEGRAPH COMPANY

25.000 OFFICES IN AMERICA CORE SERVICE TO ALL THE WORLD

TO THE PROPERTY OF TH

AP NEW YORK 1130AM OCT 24 1916

THOMAS A EDISON WEST ORANGE NJ

DURING THE WORLD'S RESULTED AND THE TRAFFIC DEPARTMENT OF THE ROSCIAL PER BEST CONNECTED ALL CAMES THE TRAFFIC DEPARTMENT OF THE ROSCIAL PER BEST CONNECTED ALL TISS DAY THE BEST AND GRAVESTON IT WAS OPERATED FOR OVER TWO HOURS TO DAILY CAMES THE ROSCIAL PER BEST AND GRAVESTON IT WAS OPERATED FOR OVER TWO HOURS TO DAILY CAMES THE ROSCIAL PER BEST AND CHICAGO THE SENTING PROST THE TRAFFIC AND CONNECTED AND THE ROSCIAL PROST THE TRAFFIC AND THE ROSCIAL PROST THE TRAFFIC AND THE ROSCIAL PROST THE TRAFFIC AND THE ASSO PERSON OUT OF THE ASSOCIATION OU

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Defoned Estimates

October 25, 1916.

Mr. William A. Watson,
Manager-Phonograph Department,
Dry Goods Economist,
201 West Thirty-ninth Street,
New York City.

Dear Sir:

Your letter of the twentieth addressed to the loose all y mached the Misson, and the latter requests me to say that he will be very glad to see you at some convenient time, and suggeste that you telephone a day or so in advance of your intended visit so that an appointment dail be arranged.

If you will call Orange 907 and ask for Mr. Headowcroft, who is Mr. Edison's assistant, you will be able to arrange an appointment.

Youre faithfully,

Second Vice President.

Who's Who In New York

W. KNOK TOR NEW YORK CL. W. Cot. 26, 1916

Mr. Thomas Alva Edison, Orange, N. J.

Dear Mr. Edison: -

We have not as yet reserved your reply to our letter or non-lith absing for revised biographical data. As we expect to go to press shortly we will be grateful to you if you will make the necessary corrections or additions on the attached sheet and return to us at your earliest convenience.

We are anxious to make this 7th Edition of "Who's Who in New York" complete and accurate in every way but to accomplish this we have to ask your co-operation.

As stated previously, by supplying this information you incur no obligation to become a subscriber and we will not permit you to be annoyed by solicitations to purchase.

As a matter of fact there will be no copies available to the public after publication as we shall bring out only as many volumes as are actually subscribed for in advance.

We feel sure you will want to possess a copy and we therefore suggest that you fill out the enclosed order blank and return it to us before we close our subscription book.

Sincerely yours,

Nerman Whook,

HWK/T

THE NATIONAL WEEKLY

P. F. COLLIER & SON, INCOME AIR WEST 131: STREET NEW YORK

EDITORIAL ROOMS MARK SULLIVAN EDITOR

October 27, 1916

Dear Mr. Meadoweroft:

that you take this means of approaching ir Edison. I have therefore written this concluded in the closed letter which I say only got and only ask you, and you you got kindness and could be the control of the control

good as to let us hear from you what you think of this?

With regards.

Sincerely yours. Henry Ferman

W. Meadowcroft, Esq. Thomas A. Edison, Inc. Orange, K. J.

October 27, 1916

Hele My Edwin unite Ris memo, en e

Salary Kipy

Day west offer next Collier's electrical number.

/ number, to be dated December 2 is intended to be a great stimulum to the electrical industry in this country. The electrical includes the total interested in it. We had hoped that you might interested in it. country. The electrical solutions with the second in it. We had hoped that you might give us a brief interview or write a brief article upon the immediate future of electricity; but we learned from in. Bedowcroft that you are so busy learned from in. Bedowcroft that you are so busy that either of those alternatives is quite hopethat elther of those aftermatives is quite hopeless. May we ask you, therefore, as a great furor not only to us but to the electrical industries and to the public in general in America, that ou will write, say, at least a letter saying something about the immediate future of electricity in America? We and, we are certain, the public would be immensely indebted to you for this as it is already indebted for so much.

With much regard,

Faithfully yours,

Managing Editor

Thomas A. Edison, Esq. Orange, H.J.

## THE NEW WEST MAGAZINE

BRANCHES

New York: 347 Fifth Avenue Chicago: 360 Peoples Gas Buildi de 400 Lareber Embarge

"BUILDING THE WEST" 1211 WALKER BANK BUILDING SALT LAKE CITY, UTAH

Six Years

October 27, 1916

Mr. Thomas A. Edison Orange, New Jewsey

Dear Sir:

Attached is copy of letter from the president of the General Federation of Women's Clubs, in which she mentions your name

We also mailed you, under date of October 18, copy of a resolution passed by the Idaho State Federation of Women's Clubs. A similar resolution has been passed by the Utah and the Nevada State Federations.

Will you not send some message to these women through The Magazine Electrical Number? It would be very much New West Magazine Electrical Number? appreciated by them as well as by us.

Very truly

Mind Mention of the Minds Robertus Baugler Menderent Jane

#### October 20, 1916

Mrs. Robert W. Spangler Western Club Woman Department The New West Magazine Salt Dake City, Utah

Dear Mrs. Spangler:

preparations being made for the observance of America's Alectrical Week, December 2 to 9. Many marvelous transformations have been wrought by the use of electricity since it was harmessed by man, and it is fitting that all the people should join in some general observance of this week as outlined by the Society for Electrical Development.

The emancipation of woman from household drudgery has been largely brought about through electrical invention, and she may well give her commendation to this movement which makes for progress and her commendation to this movement which makes for

I also desire to bear testimony to the fine patrictism shown by Thomas A. Sdison in placing his transcendent talents at the service of his country.

Sincerely yours

Mrs. Josiah Evans Cowles President General Federation of Women's Clubs

Los Angeles, California.



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### Scientific American

ESTABLISHED 1845

ARB/AS

Munn & Co. Inc.

233 BRODOWN NEW YORK

WOOLWORTH BUILDING

Odtober 28 1916.

next week

Mr. Meadowcroft, Edison Laboratories, West Orange, N. J.

Dear Sir:-

with Mr. Charles A. Mann recently had an interview with Mr. Edison and suggested that the SCIENTIFIC AMERICAN would like to publish something regarding Mr. Edison's work during the present war-times, when certain materials have been out off from our markets.

Mr. Edison agreed to grant an interview to a member of our staffs, and the possible to arrange a date some that a latter part of most week to all the staffs of the staffs

Very truly yours,

Hussell Bour

Managing Editor.

1075

Octobor 51,1916.

A. Russell Bond, Esq., Eannging Editor, Scientific American, 235 Broadway, New York, N.Y.

Dear Sir:-

Your favor of the 28th inst, has been received. In Adison eye that he is willing to grant an interview to a member of your staff towards the letter part of most week.

I would suggest that you call me on the tolophone a day in advence and I will make a definite appointment for you.

Yours very truly,

Assistant to Mr. Edison.

October 30,1916.

Er. Henry J. Forman,
Meneging Editor,
OULLERS,
416 West 13th Street,
Rew York City, H.Y.

Dear Sir:-

I have shown in. Edison your favor of the 27th inst. He says that he will probably be able to give your representative on interview some time next week. His time this week in all taken up, but if you will get in touch with me say about wednesday morning next week. I will try end make a definite appointment for your representative.

Yours very truly,

Assistant to Er. Bairon.

Collier's

THE MATINAL WEEKLY

P. F. COLLIER & SON, INCOMPORATED

ATO WEST 1311 STREET

NEW YORK

A CLEAN OF THE PROPERTY OF THE PROPERTY

EDITORIAL ROOMS HARK BULLIVAN EDITOR

7

Dear Mr. Meadowcroft:

for your letter of yesterdey. But, as they say please have a heart. Host Tednesday please have been related by the say to please have been related by the say to lete on that interview. Where the difference it must be seemed and to yet our representative come of the say that the say the representative come of the say the say the rest would to my sorrow, the last possible day will be next inday. Hay not hope that his the say been and interview feedable be lad if he does this related to the say of the say th

Cordially yours,

W. H. Headowcroft, Esq. Hunny J. Tormon c/o Thomas A. Edison Orenge, H. J.

Movember 1.1916.

Mr. Henry J. Forman,
Menaging Editor,
COLLIERS,
416 West 13th Street,
Hew York City, H.Y

Dear Mr. Forman:

I am in receipt of your favor of the 31st ultime, and in reply beg to say that in accordance with your desire. I will set in Edison to "have a heart". He is not of town for today and temerror, but I hope he will be here on Friday and will then place your letter before him. Youre very truly,

Assistant to Mr. Edicon.

November 6, 1916. MR. THOMAS A. EDISON. Orange, New Jersey. My dear Mr. Edison: a facsimile of a letter of introduction many years ago by Mr. Scr. this month Mr. Scribner with the Western Electric Company and its predecessors in business. The day is to be doubly eventful because his daughter is to be married on it. In celebration of this anniversary we are planning to make the December number of the Company paper, the Western Electric News, a Scribner number. Among other things, the enclosed letter of introduction is to be reproduced and it occurred to me that you might like to write a personal letter to Mr. Scribner which we could also reproduce. I have not said anything to him about the

matter but I know from the esteem in which he holds you that he would cherish such a letter very much.

As the News goes to print early next week, it would be desirable for us to have anything you might write not later than Monday (November 15th) of next week. Hr. Scribner is in Vermont at the present time and may go directly to Chicago where his daughter is to be married. If you will send the letter to me I will see that it is forwarded to him wherever he may be and will at the same time arrange to have it photographically reproduced for the News.

With kindest personal regards, I am,

war atmosphaly

Assistant Chief Engineer.

FBJ-GR

Scribner Rem. - Dec. 1916

November 9,1916

Hr. F. B. Jowett, c/o Western Electric Company, 463 West Street, Hew York, H.Y.

My door Mr. Jowett:

I am glad you wrote to me about our friend Scribner, and slee that you enclosed a copy of Barton's letter introducing him to me thirty-seven years ago.

he was containly one of the most prolific inventors of the arc, and I compretuints him upon excellent, and also upon living in a huppy day of the world when the people hold inventors in great reputs.

Yours very truly.

Hovember 9,1916.

Hr. C. E. Scribner, c/o bestern Mactric Company, 463 West Street, How York, H.Y.

Friend Coribnor:

in a few days you are going to calcibrate the 40th and versions of your enterance into Kolbirate the 40th and versions of your enterance into Kolbirate England England I want to an england it was to compressive your or hard versity your or hard versity your or hard versity you are utill. "In the ring", and I went to compressive your or hard the day of the coming your called you bear ty and still full of win.

marriage of your daughter, which I understand to to take place on your anniversary day, thus making the day could sevential.

With cordial regards and all good wiches,

Sincerely yours,

Howember 6 1916.

Mr. M. A. Follman, Socty to Mr. Edward Marchell, 1482 Broadway, How York City, How York.

Door Sire

in attending to in- Marchall's requests, contained in part favor of the 28 million in the hard of the particular of the particular place, no do not have any prints of the particular photograms and in the fact place it. Also have not been one of ten make the book on capped that it to only incoming a ten make the book on any late activities of the protection of the capped that it is categorich, or one of the copier.

I bont the two photon by first-class moil detunder afternoon, and trust they have been received in good order.

kindly give my very hindest regards to mr. Harchall the next time you write to him.

Yours very truly.

sectations to Mr. Edison

Hovember 14,1916.

Procs Illustrating Service, Inc., 142 West Twenty-Third Street, How York City, N.Y.

Gontlemen: Attention Fr. H. W. Sierichs

Meterring to your down of the Soth ultime, I beg to say that is, Edison has been so very busy that he had ned ne time to give to your Photographer. However, he has told no that he will spare a few minutes come day this work.

Just at this moment I do not know of his going away anywhore, but I would suggest tomorrow morning might be a good time. Please let your Fhotographer use for me.

Yours very truly,

Assistant to Er. Edison.

ESTABLISHED 1902 BY THE PRESENT EDITOR

Springfield, Mass. November 15, 1916. Nobel purize ir. Thos. A mileon , which are that the nacion shall go to Sweeten West Orange, N.J.

Dear Sir: There seems to be some difference of opinion among authorities as to the award of the Nobel Pylize in Physics for 1915. Some authorities state that it was awarded, one half to yourself and one half to Mr. Tesla; others that it was awarded to two English scientists.

For the benefit of our thousands of readers we would be glad of the facts as to whether you ever received the Fobel Prize.

We are enclosing a stamped and addressed envelope for your convenience should you deem this matter worthy of a reply.

Thanking you in advance for this courtesy, we are Very respectfully yours,

EGII/AG

## Scientific American

ESTABLISHED 1845

### MUNN & CO. INC.

WOOLWORTH BUILDING

233 BROADWAY, NEW YORK

November 16,1916

Mr. Thomas A. Edison, Edison Laboratories, West Orange, N.J.

Dear Mr. Edison: -

I am sending you herewith an article prepared from my interview with you last week, and which we expect use in the Electrical Number of the Scientific American, December 2nd.

Will you be so kind as to examine it and return it to me with any corrections you may deem necessary.

Could you let me have the article back by Monday, as we go to press on the Electrical Number early next week.

Faithfully yours,



November 18,1916.

Scientific American, 233 Broadway, How York City

Door Mr. Bond:

Attention Mr. D.R. Bond

Your favor of the 16th instant, enclosing the critical propared from your interview with ir. Edison lest week was received and shown to him. He has made a few minor changes, and I am returning it to you herowith.

the Edicon noticed that you have this in the form of an article by him. He objects most attenuously to this, and insists that you publish it solely as an interview, and not as an article by him. He says that was the understanding with you.

Yours vory truly,

Assistant to Mr. Edison.

Enclosure



Door Mr. Edison:

65EN

We are preparing for the Physical Culture Magazine an article on the subject of how much sleep must one have,

There have been so many statements circulated to the officet that Thomas A. Edison does not sleep, or that he sleeps only three or four hours out of each treaty-four, that we would appreciate a brief statement from you us to your habits and opinions in this matter.

What is the truth about these reports?

How many hours out of each twenty-four do you sleep on the average?
Are you of the opinion that the average man or momen sleeps too

auch,or could amintain health and energy with as little sleep as you are reported to take?

To you think that your exceptionally vigorous constitution has made it possible for you to recuperate more quickly and with less sleep than the average person?

If it is not imposing upon you, so would appreciate a few words from you on these points by letter. Through our magnains we are trying to improve the health of the Nation, and we kepe that in this instance you will help us to help others in this way.

Thanking you in advance for your courtesy in the satter, I am

COM: FIX

Varia sincerely, Williams.

Thomas A. Edison, Esq.,

East Orange, New Jersey.

1341

for 45 years I overaged about 4 hours along to 24. for the last 5 years about 5 in I have had assistant who for years dedutget much more also than I ded surjectly needs heard of any hours being done, I him 4 hours of deep sleep as good as 7 I him 4 hours of deep sleep as good as 7 I him people as a rule cleep too much I him people as a rule also too much in fact everything men do that they say in fact averything men do that they say they aver do 50% as in Enting, a cooping they aver do 50% as in Enting, a cooping

## Scientific American

ARB/K

ESTABLISHED 1845
MUNN & CO. INC.

WOOLWOITH BUILDING

233 BROADWAY NEW YORK

November 21,1916

Mr. William H. Meadowcroft, Assistant to Mr. Edison, Edison Laboratories, Orange, N.J.

Dear Mr.Meadowcroft: -

I have your letter of the 18th inst., returning the article prepared from my interview with Mr. Edison. I wish you would thank him in my behalf for reading the mammoript and correcting it.

I did not understand that Mr. Edison objected to having the matter published as an article. Of course, we shall comply with his wishes and state in our Editorial note, and also in the title that this is an interview.

The article will appear in our issue of December 2nd, copies of which will be mailed to Mr. Edison immediately upon publication.

Very truly yours,

Afussell Band

OKMAN

THE BRAGDON, LORD & NAGLE CO., Inc.

# Textile World Journal

Textile World Record-Textile Manufacturers Journal

OFFICIAL AMERICAN TEXTILE DIRECTORY TEXTILE ADVANCE NEWS AMERICAN DIRECTORY OF KNITTING TRADE TEXTUE AND TECHNICAL BOOKS

461 EIGHTH AVE. AT 34 TH. ST.

NEW YORK, 11/22/16.

Thomas A. Edison, Inc.

ORANGE, N. J., Dear Sirs: - Developments in the manufacture of dyeshfife by domes-tio producers have been and are of the greatest interest to the textile industry. Manufacturers are concerned about the possibilities of securing future supplies for the operation of their plants and information on this score cannot help but be of mutual benefit. benefit.

With a view to giving official data of the present produced true capacity of domestic dyestuff plants and open converts forced for the future supply we are asking all one to give manufacturers to give us complete details of the selection of the products which they are making and those they intend to make.

As a matter of human interest we desire to illustrate this information, which will be compiled for our annual issue to be published January 13, 1927, with views of the various dyssuit plants which have been constructed or are in the process of construction.

Will you co-operate with us by sending us at the excilent possible moment a description of your plant, giving it capacity the products now made and those in contemplation, partiting which are intermediate and which are finished dyes, accompanying same with a photograph for reproduction.

Will you advise us at once whether we may expect such an article from you.

Thanking you advance, we are

Hourt there we want Entro.

to do this as we are not us buseness regularly but only temporarily

November 27,1916.

The Brandon, Lord & Hagle Co., Inc., 461 Eight Avo. at 34th Stroot, New York, N.Y.

Gentlemen: Attention Er. V.E.Carroll:

Your fever of the 22d instant, hee been received and brought to Mr. Edicon's personnel attention. He wishes us to advise you that we do not think it in quite desirable for us to furnish the information you satisfor, as we are not in the business to least, but are only in it temperarily.

Tours very truly.

Edison Laboratory.

LLISCANO, FLEET, LONDOI

LONDON, E.C.

Thomas Alva Edison, Esq., West Orange, New Jersey, U.S.A.

) end \$ hoto , 19 16.

Dear Sir,

A forthcoming issue of the London "Graphic" in to be devoted to the United States. The purpose is the "Julia" firstly, to acquaint the British Empire with bits commercial hubbts and industrial resources of the United States; secondly, to propure the Industrial resources of the United States; secondly, to propure the Tritt of the Propure university of Assertia abroad. The Circuit of the October askes the issue possible, but the Publishers seriously feel that the second alone askes it north doing.

The issue will have many articles on America dealing with its Character and with its material and spiritual sides, sympathically written by Americans and by Ertions.

Mil you be good enough to send we a signed photograph of yourself for inclusion in this Number? And if the project and purpose of the enterprise comment themselves to you, muld you care to write se your approval, or make suggestions for their success?

Yours faithfully.

For the "Graphic"

December 22,191d.

The Graphic,
Tallic House,
Whitefriare,
London, E. C.

Gentlemen: Attention Fr. Leo Schoff.

Your favor of the let instant has just been received, and in accordance with your request. Er. Edicon is conding you a algoed photograph, which you will find herowith.

He regrets that he will not be able to take time to write any statement for you, as he is very busy on some important experiments which are so intricate and involved that he does not wish to withdraw his thoughts on them.

Yours very truly.
Edison Saboratory.

A/1692.

December 1,1916.

ir. Thomas N. James, 1res., Hascachusotts Biographical Society, 142 Berkeley Street, Botton, Hass.

Dear Sir:-

Replying to your favor of the 28th ultime, let me say that it is absolutely out of the question to consider such a proposition as you place before me. In the first place, literary work is entirely out of my line, and in the next place, it would be simply impossible for me to devote a moment's consideration to a matter of this kind.

My extensive business interests and experiment work demand my element attention. 18 to 80 hours a day, and I cannot give time to other matters, not even for an interview.

Yours very truly.

4/1423.

M°CLURE'S MAGAZINE

THE McCLURE PUBLICATIONS Fourth Avenue and 20th Street, New York

EDITORIAL DEPARTMENT

December 5th, 1916.

Thomas A. Edison, Esq., Orange, New Jorsey.

Dear Mr. Edison:

I cannot let you off! That book "For France" needs you. Even if you write only

two or three sentences, that will be sufficient. We cannot let the volume go to presswithout your Do let

name appearing in the table of contents. me hear from you again.

Faithfully yours,

Charles Hauson For the Committee.

M. Grander see affection

# Elecírical Merchandising

THE MONTHLY MAGAZINE OF THE ELECTRICAL TRADE
Supplementing Electrical World Service

239 WEST 39TH STREET, NEW YORK CITY

December 8, 1916

Mr. Thomas A. Edison, Orange, New Jersey.

They

My dear Mr. Edison:

We understand that Mr. Donerty has presented you with an electric flag which has been prected on your factory.

In view of the general interest in your own groat work for preparedness, and in Mr. Deherty as a leader of the electrical industry, I am asking your permission to publish in the next number of Electrical Merchandising a picture of your factory building showing this flag.

Mr. Mesdowcroft has courteously consented to procure such a photograph for us, providing your consent to its use is obtained.

Hoping that no objection will be interposed, I am,

Respectfully yours

Of bacquie show

OAC/JB

The course allowers in the way were

1558)

Docember 11.1916.

Er. 0. H. Caldwell, c/o Electrical Norchandising, 259 Vent 39th Street, New York, H.Y.

Door Sir:-

In accordance with the remest contained in your favor of the stat instant, I am conclusing a photograph of the Electric waving flag presented to Mr. Reison by Mr. Deberty. This flag is mounted on the toter of So. 24 Sailding of our plant here.

Yours very truly.

lesistant to Er. Edison.

A/1558.

Main Office: 45 Boutwell Street, Dorchester, Mass.

Contribution Editors Mary John Mary Johnston Stephen S. Wise Stephen S. Was Josephine Peals Zona Gale Florence Kelley

## THE WOMAN'S JOURNAL and SUFFRAGE NEWS

585 Boylston Street, Boston, Massac

Telephone: Back Bay 4717

Arnes E. Ryan

Contributing Editors

lvert Hall

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ten B. Lindsey aroline Bartlett Crane His Meredini-

Editor-to-Chief

Ir creticized The Women a ave sufflage because I not December 11, 1916.

Mr. shomas A. Edison East Orange, New Jersey

Dear Mr. Edison:

In our issue of June 3rd 1916, we printed the inclosed clipping which we re-wrote from one of the He. York papers. I think the Tribune. Since then the Salem Evening Hews of Salem, Massachusetts has printed a letter purporting to come from you which denies that you ever made the state-ment, and quotes you to the effect that

"While I am in favor of Woman's Suffrage, I notice that in states where they have suffrage, they have failed to use their votes to diminish seloons and to correct abuses."

I wonder whether you ever did send this letter to the Salem Evening Bows. We shall be sorry if we have quoted you in the enclosed clipping incorrectly. If by any chance, you do think that the women voters have not diminished the number of saloons, and would like information on the matter, I shall be pleased to send you material which I believe is incontrovertable and which must have escaped your notice. In town after town in Illinois, the only state where the votes are now counted separately, the women voted the town dry when it would have gone wet on the vote of the men alone.

Yours sincerely,

AER/S/IF

## [ATTACHMENT/ENCLOSURE]

## EDISON PREDICTS VICTORY SOON

Inventor Speaks to Federation Delegates About Good Results Where Women Vote

Mrs. Thomas A. Edison gave a reception the other day to the delegates to the General Federation of Women's Clubs, and Mr. Edison made them a suffrage speech.

special is no longer denied that comma suffregs will shortly be established throughout the United States," says Mr. Edison. "The evidence from the States in which women have voted goes to prove that with the ballot women are inore fairly treated under the law," the working woman is better protected, and social and moral improvement is accelerated."

and the second s

E. S. McClure, SECRETARY-TREASURER

Guy T. Viskniskki, vice-raesteen

The Wheeler Syndicate, Inc.

1585

Earle B. Carley, PRESIDENT

Telephone (270) Madison Square

Mr. Thomas A. Edison.

Dear Mr. Edison: --

In reply to my note of the trentieth of November I you suggest that there may be a possibility of your spiring, to time for an interview some weeks after that data.

I took timense pleasure in reading if . Mrahall's interview with you published in yesterday's Sun. As I am wholly in ayaprithy with the views you express in that article, I feel that I and all patriotic Americans are to be congratulated in the privilege roucherful to them of reading your views on the critical issues of this unprecedented time. It would give me the greatest pleasure if presently you could find a way to answer several questions I should be glad to present to you. What I have in mind is an expression of opinion from you connected more with the scientific them the political or economic future of the race. In this connection it would be interesting to consider the subject of what the heroic and adventurous wan of the future will find for the express of their activities if wer is eventually done away with.

Earle E. Carley, president E. S. McClure, excretary-treasurer

Guy T. Viskniskki, vice-presiden

# The Wheeler Syndicate, Inc.

373 Fourth Avenue, New York

Telephone {270} Madison Square

--2---

Furthermore, I should like to get from you your opinion regarding the possibility of the inhabitants of this planet ever getting into communication with the possibly existing inhabitants of other planets. Six William Hemilton remarks; the tas we increase the diameter of our knowledge we enlarge the directoreference of our ignorance. Could we not paraphrase his assertion in these days and say that as we enlarge the diameter of our knowledge we increase the remarks possibilities of men's accommlishments?

Could you within the next few weaks give me a talk somewhat upon the basis above suggested?

Sincerely,

Eaward 5. Van Jol2

CHICAGO HERALD
Easy to Read and Worth Reading
NEW YORK GUREAU, THES ANNEX

Er. Thomas A. Edison, Orange, N.J.

My Dear Mr. Edison:---

Farming of the the said frameword of the the said hart to youth theat thing that I are Depositor 13, 1916. my mind the arry properning phothem or I don't locant to do it

till I see chefight & Yeart are when this will recent I gave the

The editor of the CHICAGO SURMAY HEMALD has sent me East in quest of serveral articles, one in perticular having to deal with you and your valuable explores on matters of public interest.

ACLUSCO TO MECHANICAL Z' INCOMENTACION AND ACCORDANCE AND

It has been a long time--several years, in Fact--size the newspeper little.

I represent has had the pleasure of publishing an interview direct from you, and we are hoping that you will afford us the opportunity at this time. A subject of mational importance, such as was contained in Er. Narshall's article of last Sunday, or any other matter you might care to discuss, would be appreciated by the CHICAGO SURMAY HERALD and its runders.

I will be coreful not to take up more of your time than is absolutely necessary. Purthermore, my office wishes no to assure you that proofs of the article will be subsitted for approval. I shall be in New York until Friday evening.

The West likes you, Er. Edison, and wants to hear from you occasionally.

Yours very truly,

Onicago Herein Bureau,

Times Annex.

New York City,

December 14,1916

Mr. Bert Lennon, Chicago Herald Bureau, c/o Times Annex, New York, H.Y

Dear Sir:-

iir. Edison requested us to say in the last to your favor of the 13th instant, that he is on a campeign of experimenting, and in order to give you an interview he would have to take his mind off some very perplexing prolems Is does not tent to do this until he can see day-light, and just now he cannot say when this will occur. He without us to say when this will occur. He without to say the distinct the third with the will be seen to say interview to burshall we ome a hair months ago during a lull in his work.

Yours very truly,

Edison Laboratory.

K/1.599

# PHE CHAPLE

Curtis A Wessel | 97-99

97-99 Water St., New York Telephone Hanover 731

Edward H. Davis Business Manager

December 14th, 1 9 1 0.

Mr. Thos. A. Edison, Orange, M.J.

Dear Sir:

For the New Year's edition of THE PHONOGRAPH I should very such appreciate an expression from you, giving your view of the trade situation during the year just closing and of the outlook for 1917.

Won't you favor me with about 100 words on this subject? And send it in the enclosed self-addressed enveloge, not later than December 20.

with kindest regards and best wishes for a most prosperous New Year,

Very truly yours

EHD/SG



MR. EDWARD H. DAVIS

97-99 WATER STREET

December 18, 1916.

EK 100 cm2)

Mr. Edison:

The attached letter is similar to one sent to Mr. Charles Edison, Mr. Ireton and myself.

paper recently established in Onicago. Trade papers are of very little benefit to us, and we are not advertising in this one. Accordingly I do not think it advisable for us to write them anything for publication. Mr. Ireton and I decided not to do so, and I think Mr. Charles Edison intends to improve the letter he reaction. intends to ignore the letter he received.

WM-AH

Markell

C.C. to Mr. C. Edison.



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O-blings
All mains
All mains
All mains
Baunyalds
Baunyal

Mr. Wm. H. Meadoworoft,
Edison Laboratory,
Orange, N. J.
Doar Sir,-

We see that Mr. Edison is going to pose for the Movies. Would it be possible to permit Mr. Fredricks to make some pictures of him at the same time for publication?

Yours very truly,

Press Illustrating Station, Inc.

HW. Securals

December 19,1916.

Hr. H. W. Sioriche, President, Press Illustrating Service, Inc., 142 Wost Twenty-Third Street, How York, H.Y.

Doar Sir:-

that and in reply beg to say that so far as I know hr. Mison in not reing to pose for the levice. I should probably be sware of 11 ff such wore the fact, bit I have not heard a word of any such thing, and he to no exceedingly bugy that I do not think for a moment he would consent.

Allow me to thank you for the copies of the recent shotographs that Er. Fredricks made of ir. Edison. I am very glad to have them.

Yours very truly,

Assistant to Mr. Edison.

ELECTRICAL WORLD LECTRICAL

220 WEST THIRT PROPERTY OF THE PRO Mr. W. H. Mondoworoft, Laboratory of Thomas A. Edison, Dear Mr. Meadoworoft: I have worked out the enclosed article from the I have worked out the enclosed article arount the interview I had with Mr. Edicon yesterday afternoon. Will you please put it before him for his approval and correction?

May I take this opportunity to thank you again for your help in making this interview possible. Ifr. Elison has

said some things very positively here that I think ought to be said and I hope that their publication in the Electrical World will help to increase the use of electric vehicles.

As you know, we are planning to use this is the special issue of the Electrical World dated January 6. I shall appreciate knowing just when we can use this as soon as it is convenient for you to return it, as we have a limited time before the paper goes to press.

I am enclosing also with this letter a copy of the editorial which I told you about and which I wrote the morning before getting Mr. Edison's idea. It pleased me particularly to know that I had thought in about the same terms with regard to the electric vehicle that he was thinking.

FAU. Feiler

EVE/HOD

Orange, N.J.

Me Edward approved the activate from substance of the activate in the form of an interview of an interview.

i jaka

Registered Offices-

### 38 CURSITOR STREET, CHANCERY LANE.

83. Ta. T6.

Editor & Managing Director: A. R. ORAGE.

Thomas Alvan Edison, Esq.

Dear Sir.

1868

I am recommended by Sir Robert Hadfield, F.R.S. (whose printed article I enclose) to wwrite to you on the subject of the two enclosed questions on the industrial situation after the War and how to meet it. Sir Robert feels that you might be persuaded, busy though you are, to send me a contribution to my symposium, in the form either of a letter BEXERBIERS or article, expressing your ideas on the possibility of an after-war partnership between Capital and Labour from the point of view accepted by Science. I might mention that various point of the symposium have been indicated by representative public men. For instance the after-war view on the position of Capital by such big Government contracters as Sir Robert Hadfield, Sir Hugh Bell, Sir Maurice Fitzmaurice, Sir William Denny, Mr Dudley Docker, C.B. and others. I am very anxious to make the symposium complete by obtaining authoritative expressions of opinion from the point of view of Science. It needs no one to remind me how suited you are by your great accomplishments and practical experience to tell us what the application of science to industry is going to do to replace the present industrial hostility by an industrial partnership. Sir Robert suggests that I should make my appeals on three grounds. First in view of your remarkable article on Science on the Battlefield. Second, that Sir Robert is an old colleag/ue in metMalurgical research, Third, that he has been assisting one of the American Commissions sent

Gardn .

Day that I have not had time to give the subject sufficient throught to give an aformion afacing value and beg to 62 excused-

fices-

REET, CERY LANE,

LONDON, E.C.

1868

ose printed e two enclosed ow to meet it. you are to of a letter after-war view accepted osium have the after-war ntrácters as Sir William to make the of opinion iind me how 1 experience going to do rial partner-

m three ground,

First in view of your remarkable article on Science on the Battlefield.

Second, that Sir Robert is an old colleag/ue in met/alurgical research.

Third, that he has been assisting one of the American Commissions sent

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over here to investigate the results of the application of solence to industry, and an expression of orbiton from you on the grave industrial orisis towards which this country is moving, and on the way out, would be a more or less suitable return for his countesy. Apart from this one would welcome the authoritative expression of one who is probably the greatest inventor of our age.

I trust therefore you will honour me.

Most faithfully yours,

Huntly Carden
Symposium Editor, New Age. London.

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eta error (1914) eta error (1914) eta error (1914). 1915 - Arien Berner, error (1914). 1917 - Gregoria eta error (1914).

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ELECTRICAL WORLD 239 WEST THIRTY-NINTH STREET NEW YORK

OFFICE OF THE EDITOR

FILE T

December 30, 1916.

Mr. W. H. Meadoworoft, Assistant to Mr. Thomas A. Edison, Orange, N.J.

Dear Mr. Meadowcroft:

visw with Mr. Misen. I will present it as on intervisor in the January sixth inner of the Electricks World I am glad that Mr. Misen for the Electricks World I am glad that Mr. Misen added to the meruscript in one or two places. I purposely control the statement he made in regard to garaging feeling that he sight not wunt to make that statement publicly. But I am Just an happy if he is willing to publish it just as he says it. May I thank you quant for your kindness in making this interview possible.

Yours very truly, J.M. Friker

FMF/MCD

-

## Edison General File Series 1916. Autograph and Photograph Requests (E-16-04)

This folder contains requests for Edison's autograph or photograph and related correspondence. Included are letters form collectors, publishers, news bureaus, photography studios, and educators. Also included is correspondence with Edison's acquaintances and employees, along with distributors of his phonographs and batteries. Among the items for 1916 are letters from Leonidas B. Estopinal, son of Congressman Albert Estopinal of Louislana; British engineer Arthur Percy Morris Fleming, John Frazer, dean of the Towne Scientific School at the University of Pennsylvania, attorney and former Edison employee William H. Lammar, and portrait artist Jacques Reich.

Approximately 10 percent of the documents have been selected. The unselected material consists primarily of items that received a perfunctory response or no response from Edison.

 $\eta^{ij}$ 

January 17, 1916.

The International Film Service,

San Francisco, Cal.

#### Gentlemen:

Replying to your collect Wight Letter of the 13th instant:-

34 pictures of Mr. Edison twien during his San Francisco visit? We distilke buying them all 'alghts unseen'. Would you care to send them on for examination or at least proofs?

Kindly reply by letter; we are not so distressed on the subject that another collect telegram will be necessary!

Yours very truly,

THOMAS A. EDISON, INCORPORATED,

THIRD VICE PRESIDENT.

Huibersity of Notre Pame Notre Pame, Indiana January 17, 1916.

Mr. Thomas A. Edison,

Orange, N.J.

My dear Mr. Edison:

I wish to thank you most sincerely for your kindness and courtesy in causing to be sent to me an autographed picture of your-self. The picture will be framed and will adorn the walls of our Electrical Engineering building.

Thanking you again, and with all good wishes, I am

Yours very sincerely,

Professor in Charge Electrical Engineering Department.

St. Iohn's Military School Sulinn, Munone

Jan. 21,

Thomas A. Edison Co., Orange, N.J.

Gentlemen:

We have been refitting and remodeling our Physical and Chemical Laboratories and sang other things that we need are pictures of a scientific nature for the walls. Perhaps you could give us some of the pictures that you use for advertising.

We would like a large picture of Mr. Edison if possible. A picture of the interior and exterior of the Edison laboratories would also be valuable. Perhaps you have other pictures which would make an interesting addition to our walls.

We would particularly like to get a large copy of Mr. Edison's noted short article on digarette smoking, signed by him, suitable for framing. Our school is opposed to the cigaratte habit and this will be a great help to us in impressing on the boys the ovils of this habit.

abit. Youre truly, W.L. Sanssli. Hendmaster

lang 2 \$ 1916 -WILLIAM E. SHAW ELECTRICAL LABORATORY S SHEPARD TERRACE Lea. Her mendo croft -Dendon you a keter from n. g. Edwin G. Desire of charge from who liver in the first of the first second metal grow it at his home . Other war will be a formal his competition of the state of th a start time then Onice return it and show you to metal. those you to melat. alien Coo have any large freeze of me Edinis Ownet to the first have one placed in my private laborated Effect Dr. Clepander Juliet & sand and his late photo som the is a friend of mine and Ohne several of his letter Sam the riverter of the " Light" John Jelifhone il Bel are the Greatest mien Iam employed in the Elec help ? Et Edin Plant Have been there for Wim E Standar Ro. Day son will call for our Elin

7 =4 1916. WILLIAM E. SHAW, SA. ELECTRICAL LABORATORY

blem her mendo enoft-

Topot & tel gon about me Toch when I west operating - He is a day mute platograph by trade. He has done work for

such a man ax Col. Roverelt. 8/ Du. Edin his no lot Hotes,

me Pack will be thought of your con-

Istil m. Hutchion knows Mr. Tack.

model trades and took to day and bearing. His brains is at III Bridling to J. C. of (Trimity Bridling) Kindly Be me know how how.

Edin con here photos Toten of he cont y 5 9. 9. 9 -

My Ling Licenty. Show, Sh -

DOMESTIC BUREAUS
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January 29,1916.

Mr. N. C. Durard,

Thomas A . Edison Inc.

Orange, N. J.

Dear Sir;

Am sending you under separate cover contact brints) of Mr. Edison's visit to San Francisco, these will symble you to order what you wish.

OHINGE.

OHINGE.

OFFER 16 1916

OWN Offer and following white Color of the Color o

Seting to Hos A lideson alhum in which I would lake to. Mr. Frederic Steffungs. New York City

# Anited States Post Office

Breenville, S. C. Peb. 2, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

I wish to thank you very much for the

Photograph of you and my friend Senator Tillman.

Regiseotfully,

Postmaster.

ESB/DET.

N

WILLIAM H. LANMAN.
1058 BROADWAY.
NOW BRACEY.

February 8, 1916.

William H. Meadowcroft, Esq., Edison Laboratory, Orange, N. J. (6997)

My dear Meadowcroft:-

I am about to complete the 25th year of my connection with the General Electric interests. I have very pleasant recollections indeed of my entrance into the Edison camp in 1891 at 44 Broad Street. One of the things that has always remained prominently in my mind in the kindly attitude which you assumed towards me in the old days when I was very much of a greenhorn and of this I have frequently spoken to Mrs. Lenman and many of my friends and associates; I have also told you this before but there is no reason why I should not tell you again, because I have always appreciated how you and the other boys at Broad Street took me into the fold and made me one of yourselves.

While I have not for some years been as closely identified with Mr. Edison as I was in the early days, at the same time I have always been proud to be known as "an old Edison man". In oclibrating, as I shall do in a small way, this 25th anniversary of mine, I wish to hang up in my library at home a good recent photograph of Mr. Edison. Will you kindly send me a good picture of him and ask him if he will be good enough to attach his autograph to it. I presume you have on hand some photographs or can readily obtain one

WHM--2

from available negatives. If you are put to any expense in obtaining a print for me I shall like to have the privilege of reimbursing you. I have just received my copy of the program of

the Convention of the Illuminating Engineering Society to be held in New York this week, and if possible shall attend some of the sessions. I hope particularly to be present at the banquet at the Biltmore on Thursday evening and shall be very happy if we can get together for a few moments.

Please give Mr. Edison my warmest regards and tell him that I wish him all sorts of happiness, good health and prosperity.

Very sincerely yours, Mannan.

WHL/C

WHI

Pab. 9th. 1916.

Fr. William H. Leamen, 165 Broadway, New York City.

My deer Mr. Lanman:

I am greatly pleased to receive a letter from you and have road it with a great deal of interest. It is no ase talking, tempur does fight. I am betwork the attack, and don't have whether to say it reems that presentar, or to tell you that it absentiate fifth years. I am rather in lined to the latter, because I have grown to know you so well, and to exteem your friendship.

I shall no very greatly pleased to get you a nice picture of in. Edicon and have him autograph it for you. There will not be the clicktest exponee, and it will be 1 joy and a pleaser to me to get it for you. The only thing I must ack is that you have a little patience, at Ir. Edicon is on one of his campaigns, and I cannot get his attention to the matter for a little while yet.

I hope to be at the Banquet of the Illuminating Engineering Soie ty tomorrow might, and shell look forward to the pleasure of sheking hands with you and exhemning a few grootings.

> with kindest regards, I remain, Yours ver, truly,

assistant to Thos. a. Edis My dear Mr. Meadowcroft. Last year I had some correspondence with you in reference to a large exching which I intended to make of Mr. Edison and add to my series of etchings of famous americans, and regard ed one or two of the best photographs I could obtain for that furpose. Ju wrote me on the 22 - of march 1915 that you referred my letter to Mrs. Edison asking her to indicate her choice of photographs. as I have not heard from you nor from Mrs. Edison, I thought of wisher again and ask you if you have had any again and ask you if you have had any suggestions in the matter from Mrs. adicon suggestions in the matter au muportant portain of Mr. Edison I am greatly desisons to have the best material as a basis, before proceeding

Etched Portraits
of
Famous Americans
and of
Poets, Authors & Musicians
by
Jacques Reich

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New York, February 14, 191-6

Mr. W. H. Meadowcroft, C/o Edison Company,

South Orange, N. J.

Dear Sir:-

We hope you will find it convenient to have us send an operator out to make the photographs of Mr. Edison and the set of Encyclopaedia Britannica, about which Mr. Patton of that company spoke to you some time ago. We know that Mr. Beison is very busy, and you stated that you thought after the holidays he might find time to have the pictures made.

Very truly yours,

## Oeuvre Internationale pour Blessés et Prisonniers de Guerre SECTION BELGE

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La Haye, 6 11 février 191 5. Parkstraat 73°

Monsieur Thomas Alva Edison

Menlo Park.

N R W - J E R S E Y. Etats- Unis.

Monsieur,

La Très Haute Bienveillance que vous avez toujours bien voulu témoigner à la Belgique nous invite à vous présenter notre requête respectueuse.

Nous avons fondé à la Haye une Section Belge de l'Oeuvre Internationale pour Blessés et Prisonniers de guerre.

Le but de nos efforts est de réconforter moralement nos braves soldats, internés en Allemagne et de leur envoyer des colis de vivres, qui tout ensemble adouciront pour eux les rigueurs de la captivité.

Quand après la fin de la tourmente qui bouleverse l'Europe, la paix sera rétablie, il faut que ces jeunes gens nous reviennent vaillants et forts et travaillent avec nous à la grande tâche de refaire notre Patrie, aussi belle, aussi prospère qu'elle l'était jadis.

Vous n'ignorez certainement pas, Monsieur, que nos ressourcessont limitées et que nous devons nous ingénier pour trouver les moyens d'alimenter notre Oeuvre, de lui permettre de vivre jusqu'au bout.

Nous avons donc pensé pouvoir organiser ici une exposition et une vente d'autographes.

Nous venons vous prier de nous aider à réussir en nous envoyant un autographe.

Nous sommes confiants que votre Haute Bienveillance accueillera favorablement notre requête. En foi de quoi nous vous prions d'agréer l'hommage de notre plus profond respect.

Le Vice-Président:

reaux ouverts de 10 heures

à midi et de 3 à 5 heures

International Works for the wounded and prisoners of the Weer -Belgian Section -Will organize an Expedition and bale

of Autographs and invite you to help them with one of your Autographs The president

Ch. van Lechwijck Pank-Straat " " "

The Hagne



Relieve WHILL

# The Edison Dictating Machine

## BAYLIS OFFICE EQUIPMENT COMPANY DISTRIBUTORS

No. 1 South Broad St. ATLANTA, GA. February 23, 1916.

Thomas A. Edison, Personal Edison Labratory, Orange, New Jersey.

near Sir:

I have received notice that I am a prize winner in the Diamond Disc Advertiseing Contest and I wish to express my gratitude direct to you.

I was until the first of the year connected with your Dictating Machine Division and am now selling these here in Atlanta. Present sales and future prospects are excelent indeed.

If consistent, I would appreciate a signed paot-graph to place above my desk in my Pictating Machine Demon-stration Office.

With greatings, and wis ing you as long a life as you yourself desire, I am

Respectfully.

Respondent to the property of the street prop in lake

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CABLE ADDRESS CITORUM, NEW YORK

TELEPHONE 4007 BRYANT

CHARLES S. LECKY MEMBERSHIP SEGRETARY

147 WEST 48TH STREET, NEW YORK

March 1, 1916.

My dear Mr. Meadowcroft:

Evidently the pictures of Mr. Edison and Dr. Butler that I mailed last summer for Mr. Edison's autigraph were lost in the mails, as we cen find no trace of them. I am sending under the cover two other photographs, and will deeply appreciate if Mr. Edison will be willing to autograph them under his picture. After which, I will ask Dr. Butler to do likewise.

Thanking you, I am,

Mary 13 Cardan

Mr. William H. Meadowcroft, Orange, N. J.

mr. Edura

Just your autograph on

each of these 2 piotures, under

Photos neith condaming his with

Snard 16 1916 WILLIAM E. SHAW ELECTRICAL LABORATORY ECIALTIES FOR THE USE OF THE DEAF AND HARD OF HEARING WEST ORANGE, N. J. S SHEPARD TERRACE Du Home Historica Com. Security Bound The Mandered yours of Jan 25, 1916 It is with sincere thanks of with this to you for Judging me a ford photopped of me Calier fundage of Regulary me and the friends you of seeing I'm Edicar with this whene on the floto which he gave me and that I have ofoken I you f? My deap friend, the gold article trace copied a small ficture from that photo so that he can get The foint and outlines of Mr. Existing face which he is new engineery a med. a medal. when he is through with it But as me Edian is Owned like to have Jo William Edla

Junear often about 3.00 ditted Jung from mile trung you der IM. Heter, und flowed teleflowed to M. Langly for me to Carl . I would let It say " good Bye" to Me. Edward Edin. Dr. alember Groben Bell has artisyrifted one of his by flots for me. It happened to be flowed to be my britted march 7#1916.
He said he would hope. to visit my laboratory at my borne wich nurs Bull of some Juture time. Those stey will come sometime in Very truly Jours If you are too busy triday aftering Goice Soundy 8 am do?

### march 17. 1916

### WILLIAM E. SHAW ELECTRICAL LABORATORY SPECIALTIES FOR THE USE OF THE BEAF AND BARD OF BEARING

S SHEPARD TERRACE My dear Mr. Edison

of de 10. Colore Chief of my gratures end find it.

of last I will be think on very much for the flater of a grantly while of me will had a loop of for me transverse more thank a loop of the last of flater in my small laboratory at home whose I light it will have on incentive to me.

your mountains of the invandament to the allement me to a month the temporal me to the stay of muchs, which I have at least perpetul.

which I have at least progress .
May I gain about to you may become thank to find now for four continued the lett to from four for four

Very Simeran E Skant

He works for Langley - He is stone deaf and is working all the time for deaf people to help them. mentowarge

WILLIAM, E. SHAW

FIRST EDITION, 1768-71 3 VOLETT PETE PROCES

1114 EDITION 29 VOLS.-- 20.50 PAGES

TheNew-Encyclopaedia Britannica

Published by the press of the

University of Cambridge, England idlomadnoskos timiddina

120 WEST 32ND STREET NEW YORK

March 18, 1916.

Mr. Thos. A. Edison,

Orango, New dersey.

Dear Sir:

Attention of Mr. Meadoworoft.

We are in receipt of your favour of March 16th addressed to Mr. William Patten, advising that you have returned the set of Encyclopaedia Britannica, for which please accept our thanks.

Yours truly,

THE ENCYCLOPHEDIA BRITANTICA CORPORATION.

AMS-XG



Je mode labble of Threb 3..

is the factor of the section of the contract o hapter. This is a minimum of the ballion of basel dyintra., call to this to eather the Areat shows all c. 135 co., referrit for entire within to be . ". I a granoff, them. Acher hours, i'm, 'estavas-chi cilli indalla a civir - god in for two and time to the meter.

Your green trade

Mr. Edison Su alladico Correspond

March 29th. 1916.

H. L. Johns-Manville Co., 239 Halsey Street, Rewark, N.J.

Gentlemen:

Your letter of the 18th inctent to the adicon chemical lorks, with photograph of ir. Edicon's chemical plant at Alver Lake has been handed to me. Ir. Edicon is in Florida, where he has gone for a few weeks vacuation, and we small have to communicate with him in regard to your request.

I feet too are soing to be disappointed, as are addednous entherto refused contitively to permit the stallection of any photographs of his encoded works. However, I will cond down your latte, and the suctoprush to him and we what he says.

fours very truly.

assistant to Mr. Edison.

COMMITTEE ON NAVAL AFFAIRS WASHINGTON, D. C. ANDL 3 JOH Machines J. Gais mot rough his my dest m. Edison-2 wrote you familianes. laking for to send me your lutagraph for à l'illection of losseluf lutagrapho & nor Itting up in letter from ex presonal kuprake and a failed to It's before is my letter to land, and 2 Daniel why the thought some unfareen way my When face to rech fork annal misplaced in some way, and I present so much that I always wanted fan Centagraph an my Collection, I have Precident recon ETITATION CAMBINA

LEGISTA, PARSET, T. TON, SOUTHWARE
A PRINCES IN THE PARSET, AND SOUTHWARE
A PRINCES IN THE PARSET IN THE

HOUSE OF REPRESENTATIVES U. S.,
COMMITTEE ON NAVAL AFFAIRS,
WASHINGTON, D. C.

the brenduthraschall and some a hundred of the prominent people from see over the moved in me Callestion, 2 ame a son al seneral Estophial a member of the moved Committee of the house following and the forth time ago a lungue represent before the committee, now if 3 am not asking to much a four Ring for the form letter for the country to specially with some letter for the autograph to specially with some letter for the autograph to specially with some letter for the autograph to specially with some letter and him when a struck some six tray hindly in a some a autograph to specially with some letters and him with a six tray hindly in a some a misher. I say hinesely yours.

-271-2 tomes office . (321),

Jacques Reich New Dorp, Staten Island New York

April 8, 1916.

Mr. Wm. H. Meadowcroft, Orange, N.J.

My dear Mr. Meadowcroft:

I wish to thank you for the photograph of Mr. Edison which you sent me, and which I received a day or so ago.

I note from your letter that Hrs Edison is now in Florida and is not expected back until some time next month. I shall bear this in mind, and write you again about May 15th, when I hope that it will be possible to arrange for an interview.

Yours very truly,

Jacques Peic



AUTO ACCESSORIES AUTOHOBILE NORMS

CARBURETORS ELECTRIC LAMPS HEADLIGHT LENS SPEEDOMETERS





## H.W. Johns-Manville Co.



WJ0:W

NewYork

WARDJOHNS NEW YORK



ESTABLISHED 1050 NEWARK OFFICE F R AUSTIN MANAGER 239 HALSEY STREET

> NEWARK, N. J., April 11, 1916

SHOCK ABSORBERS SPARK PLUGS TIRE PUHPS THE AND THE BEE BUILDING MATERIALS ASSESTED SHINGLE: ASSESTED WOOD ASSESTED STUCCO ASSESTED PLASTER CORK FLOOR TILING

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CENERTS FOR HIGH TEMPLE ATURE, IRON, ETC.
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ELECTRIC LINGUITE AND
BULD LAMPS
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PROTECTIVE DEVICES SERVICE, SUDWAY AND TRANSFORMER DOXES CONSTRUCTION DEPT FOR

A1 1-60 -00

APPLYING J-M MATERIALS

The Laboratory of Thomas A. Edison, Orange, N.J.

Dear Sir: - ATT: MR. W. HEADOWCROFT, ASS'T TO MR.

We are in receipt of your favor of the 7th and we regret that Mr. Edison cannot see his way clear to allow us to use the photograph of the Edison Chemical Works, but would it not be possible for us to use the photograph that we have of the Phonograph Works?

Thanking you in advance for your early advice, we are

Yours very truly,

H. W. JOHNS HADVILDE COMPA

intations subject to change without notice. Estimates limited to thirty days acceptance Not liable for failure to perform caused by strikes, fire or anything beyond our control.

Arril 12th. 1916.

20

H. W. Johns-Manville Co., 239 Halsey Street, Hewark, H. J.

Attention of Mr. L. J. Osborn

Gentlemen:

herlying to your favor of the 11th instant, let me ask whether it tould not be attisfactory to you to wait until Mr. Edison returns from Florida. It is our constant study to eliminate every item possible from his mail, and unless there is extreme urgency in this case, I shall be very reluctant to ask his attention to the matter. I expect him to return within the next two or three weeks, so the delay is not a great one. In the meantime, you might codd me a copy of the photograph of the Fhonograph torks. I mean, of course, the photograph that you wish to use.

Your very truly,

Assistant to Mr. Edison.

May 2nd. 1916.

H. N. Johns-Menville Co., 239 Haleey Street, Newark, N. J. Attention of Mr. Osborn.

Dear Sir:

Referring again to your favor of the 11th ultimo, Mr. Edison wishes me to state that he has no objection to your using the photograph that you have of the phonograph works.

He still adheres to his decision that he objects to you using the photograph of the Edison Chemical Works.

Yours very truly,

Assistant to Mr. Edison.

## UNIVERSITY OF PENNSYLVANIA

TOWNE SCIENTIFIC SCHOOL

JOHN FRAZER, DEAM

May 15, 1916.

Mr. W. H. Meadowcroft, Asst., C/o Thomas A. Edison,

Orange, E. J.

My dear Sir:

In accordance with your letter of March 27th, may I ask you if you will be good enough to bring my letter of March 24th to the attention of Mr. Edison?

Very truly,

Russelle

### [ATTACHMENT/ENCLOSURE]

S' 3 UNIVERSITY OF PENNSYLVANIA

March 24, 1916.

HN FRAZER, DEAD

Mr. Thomas A. Edison,

East Orange, N. J.

My dear Mr. Edison:

I am writing to ask if you will present to the Dean's office of the Torne Scientific School of the University of Pennsylvania, a photograph of yourself, bearing your signature.

I feel that it would be especially appropriate for the School to possess such a photograph, and I am quite certain that it would be greatly appreciated should you consent to present it, and I hope very much that you may feel disposed to do so.

Incidentally, I am endeavoring to complete the collection of photographs and autographs of the Professors who have been at the head of the various Departments of the School, and I find that I have none of the late Professor Marks, who, I understand, was a personal friend of yours. I venture, therefore, to ark if you can tell me through whom I could secure a photograph of him and his signature.

Very truly,

acceptage only

Dr. Ather Sager.



# Tariff Commission League

OBJECK—To carry forward a nation-wide campulgu of education which will demand of Congress the creation and permanent maintenance of a non-partiana Taciff Commission of the highest preparance, which shall be given the breadest power possible under the Constitution, to the end that tariff enaturates shall be based upon maceritained fasts and be for the interests OP ALL, TILL PROFILE rather than for pullitual excellency.

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ARD H. GROSS CLARENCE S. FUNK LEWIS K. BROWN JOHN J. MIT WESIDENT VIGE-PRESIDENT EXEC, SECRETARY TREASUR DIRECTORS

NR G. LORAN N. W. HARRIS WILLIAM V. KRIARY WILLIAM HENRY M.

Samuel, C. Scotten Howaid H. Gross

TELEPHONE CENTRAL 6039

Mey 19, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

My dear Mr. Edison:

You remember, you consented to be one of our Advisory Committee upon invitation of our Board through at Syllesby?
Our companies the successful consended to the bare decided to place upon the walls of our we have decided to place upon the walls of our office attographed photographs of a number of our most valued friends. We should be delighted to have a photograph of you to place alongside of one of our very good friends, Mr. James J. Hill.

Your name has been a great help and inspiration, and I wish personally to thank you for being one of us.

Sincerely yours,

A Note o 25

autograph only

# UNIVERSITY OF PENNSYLVANIA PHILADELPHIA

TOWNE SCIENTIFIC SCHOOL

JOHN FRAZER, DEAH

May 24, 1916.

Mr. W. H. Meadoworoft,

Edison Laboratory,

Orange, N. J.

My dear Sir:

I beg to acknowledge, with thanks, the receipt of your letter of May 23rd, and also of the photograph of Mr. Edison.

Kindly convey to Mr. Edison my warmest thanks for his courtesy in presenting to the Towne Scientific School his signed photograph, and assure him that the same will be very much appreciated.

Thanking you for your courtesy in the mat-

ter, I am,

Very truly,

In Who tray



AUTO ACCESSORIES AUTOMOBILE HORNS BRANE LINING CARBURETORS ELECTRIC LAMES SPECDOMETERS SHOCK ASSORBERS

TIRE PUMPS THE AND THE DURING MATTERNA BUILDING MATERIALS ASBESTOS STUCCO ASSESTED PLASTER

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INSULATING MATERIALS SERVICE METER
PROTECTIVE DEVICES
SERVICE, SUBWAY AND
TRANSFORMER BOXES

JOB: E

CONSTRUCTION DEPT FOR 7210 S'2.

ASSESTOS

## H.W. Johns-Manville Co.







20000

45

Madison Avenue & Hst. Street New York May 27, 1916.

Thomas A. Edison,

Orange, New Jersey

Dear Sir:

Attention of Mr. Meadowcroft.

We have had a little correspondence with you in regard to using an illustration of the phonograph works in one of our catalogs. Your letters on this subject were dated April 12th and May 2nd.

It was agreeable to you that we use pictures of the phonograph works, but not of the chemical plant. In this connection we are attaching printed proofs of the catalog pages and in order there will be no possible misunder standing, we would thank you to look over the two illustrations which are attached and let us know whether or not these are the phonograph works as we believe them to be.

In view of your permission to allow us to use a picture of the phonagraph works, but not of the chemical plant, we are specially anxious that there by no misunderstanding on this point.

We would appreciate it very much if you would be kind enough to pass on these illustrations Monday and rekind shough to pass on these lituatrations women and re-turn them to us with your reply, as we are already to go to press as soon as this point is settled. You will understand of course that these are just rough printed proofs and that the plant will show up much clearer and better in the actual printing.

Yours very truly.

H. W. JOHNS-MARKILLE COMPANY,

Advertising Department.

esse return

East Orange, N U. S. A.

June 13th, 1916

Dear Sir,

In January last I called on you and you were good enough to discuss with me various phases of industrial research work, and you described some of the research investigations you have carried on in your own laboratories.

During my short stay in America, I visited a number of . the leading research laboratories, and I have recently been requested by one of our Government Departments (Advisory Council for Industrial Research), to prepare a memorandum embodying the results of my observations.

From most of the laboratories I visited I have obtained photographs of interior and exterior views, with descriptions of equipment and some idea of the character and magnitude of the research work undertaken, in many cases supplemented by cost of equipment, buildings and annual maintenance.

My object is to convey an accurate idea of the magnitude of the research work undertaken in these different laboratories, rather than specialised information which, for commercial reasons, it may be undesirable to disclose.

While all industrial people over here are familiar in a general way with at least some of the many phases of your work, hardly any can form a conception of the magnitude of the operations conducted in your research and manufacturing laboratories.

I write to ask whether you would care to furnish me with any particulars, and especially photographs, which would serve the purpose I have in view.

I should much appreciate any assistance you feel able to give me in this matter.

> Yours faithfully H.I.E.E. Mem. A.T.E.E.

He large Rock Construction of the large Rock Construction of the large Rock Construction of the I have been a family atom our place have a family and mummerite imported and numerous took it to show at the Rock. and Livery Mencause. It had to rather a remark. The thing: It David asked one to perpar an exploition

of trap-and he told me you had interested him in that, of traprock roadmaking. Than had to add other and had invented crushers. materiale, and are giving He was made an appointment the quological origin or for new to go to the Millington lornation of each. Quarry this week. Than studied geology Than already written to from a child so that heart a Orusher Company for is comparatively easy, and pictures, but would like Dr. Henry B. Wilmel, The Mate Geologist and Mr. James in addition pictures or models of the first, or rather, 4. taubour have given min books: your crusher. any thing of Gaological attas, reports etection Col. James M. Howard; Mr. Ira. that cost will be of the great-Howell, city auginer and Mr. cet interest. The best of care Charles Whiting Baker, Editor will be taken while them ingineering hime an ales inand in returning. thrested and helping. Mr. C.W. Baker proposed 633

ending it with a ecuie feature so Yam getting photographs etection of the Colum. bian Highway, Origon. The Palisades Park Road; Lincoln Highway, and afuntrassa, and, before Mr. lepton mutai ed the crusher, in thought of the moving picture part of roads, and Ewas going to ask you if any thing could be down about that. It is difficult to exactly uplain ou purpose in writing Could you spare me a few minutes if called to see you at your

office or hour? Than an appointment with Col. E. a. Steven Ind. meday at Hoboken, and do not know what day Mr. lepton will want mu to go to Millington so it would better be the first of night week. If you have any thing in crushers or moving pictures un will be very glad and greatly obliged. hig truly yours Elizabeth F. Colluna July suruteuth.



I have a favor to ask of you---

The old soldiers of Waterloo, Iowa, have an unusually active G. A. R. Post there considering the fact that the Boys in Blue are getting pretty old.

The City of Waterloo, and the various organizations that are affiliated with the G. A. R. between these provided the Old Soldiers with what is known as a G. A. R. Memorial Hall. The City furnished the plott of ground and the builting was reised by eubcorrigion.

not long ago Mr. Eisen in the goodness of his heart aw fit to agree to write them his personal on or about \$55.00 or \$50.00 have sorgoten suichibe Dept on an Edison Disc Phonograph which they work and now which he was a suich fit of the suich which loss friends had made up the money to but.

I was in Waterloo, last week and of course made it a point to call on these old Soldiers to see how they were pleased with their instrument and to favor myself by seeing their plant.

I cannot begin to tell you of the warm apot that Mr. Edison holds in all of their hearts because of his genorosity, and Mr. Edison holds in all of their hearts because of the genorosity, and Mr. wish was expressed to me by one of the "boyer that they rished very much to have an autographed portrait of Mr. Edison and I made a mental note to see if I could not secure it through you for them.

This G. A. R. Memorial Hall is devoted to things military, but they told me that if they could get a picture

of Mr. Edison, that it would occupy a place of honor on their walls.

Do you suppose that you could arrange for me, to have such a picture supplied and have him inscribe with his own hand about the following--?

"To the Boys in Blue of Waterloo, with greetings from Thomas A. Edison"

favor.

COL

This certainly would be appreciated by me as a personal On the other hand if you feel that I am over bold in making his request I shall deem it perfectly proper for you to decline my request if direumstances should necessitate your doing so.

With my own kindest personal regards, I am,

Very truly yours

GCS.ESS.

won appearance ?

See above

EDANK MANLY.

## NNIS BARRETY, Board of Public Education

S. B. FELKER W. C. MEGHEE P. B. FITE

DALTON, GA., Sept. 28th. 1916 191

The Edison Talking Machine Company

Gentlemen; -

We are anxious to get a good life size bust portrait of Thomas A.Edison to hang in the rotunds of our new Public School building which the ladd! are taking a good deal of pains to nicely decomined the ladd! and thow of a more inspiring portrait of 600 childres to learn to know and to honor than 1900 can put us in the way of getting one put us from the way of getting one put us from the way of getting one some properties the favor. The sort of a portrait hat we would like to have of course would frame it properly and hang in our "hall of fame"

Yours very truly Frank Man ly Mr. Mendoweroft-Chairman Board Public Education City of Palton Ga

R. BLOSS BILLINGS, Vice President ALBERT W. ORTON, President and Tressurer Rome Box and Lumber Company Packing Boxes Baled Shavings Shooks Factory No. 2, E. Dominick Street I wish to thank you Times and the 110 millar Ideproph Cof-I you plant in Och 27th I foly on file of the time the pictures were taken of the My Edian Laggeted one to take the one my Mus Edian Laggeted one of town I men very mos to have one ofthere & you come trace auxor on in Mittees Mr Cornegie Jamel Ekul sent me their photograph Jone Time up and us have a yearle I would hiply prime no my buy mishes to you ?

October 5, 1916.

Mr. Luder:

willyou please let me have one of the group pictures of the U.S. Military Telegraph Corps. This is the small group. You will note Mr. Edison says this gentieman can have one.

W.H.MEADOWCROFT.



October 13, 1916.

Mr. Albert ... Orton, Rome, New York.

Door Mr. Orton:

I have received your note of the let instant, and am glad to comply with your request by conding you a copy of the group photo-

graph of the U. S. Hilttery Telegraphere.

I am glad that we have gotten an opportunity of photographing this group.

Thanking you for your good wishes for myself and wife. Whe are heartily reciprocated. Yours very truly,

### THE WESTERN UNION TELEGRAPH COMPANY



On the occasion of the meeting of the "Old Timere" at your place, I was fortunate to be present as one of the "Old Hillitary Boys", from Washington, and was more fortunate, which I appreciated to the fullest extent, in being in a group picture with yourself.

I have been wondering if it was ressible for me to obtain a copy of that picture taken by your photographer. I would consider it a very great favor if you would try to obtain a copy and mail it to me.

I remain,



886

ALBERT W. ORTON, President and Treasurer

R. BLOSS BILLINGS, Vice President and Secretar

### Rome Box and Lumber Company WHOLESALE DEALERS IN



Shavings Erie Canal and Railroad

Packing Shooks



Office and Factory No. 1, Caral and Ann Streets Fartery No. 2, E. Dominick Street

Mr. Thomas A. Edison, Orange, M.J. Dear Mr. Edison:-

I wish to thank you for the Photograph of the Old Timers and U.S. Military Telegrapher Operators which you sent me and which looked so good to me. If you know how much I will prize it you would be repaid for your interest and the letter you sent pleased me very much.

I believe we agree on a good many things. We might differ on our politics this fall but I don't want to argue this for we are always to be good friends and Comrades.

October 20, 1916.

Mr. R. W. Bender. c/o
Western Union Telegraph Co...
Washington, D. C.

Dear Sir:-

let me against there were two group pictures token of the "Old there were two group pictures token of the "Old theorem on the occasion of their viole to, and the other was a few interests of the old the other was a few of the old mile per of the old milet or the old miletary group of the Old Military Selegraphore."

These photographs were made by Underwood & Underwood, hotographers, 417 Fifth Ards, Hew York City, H.Y. I think that the would be allo to supply you with a copy of the photograph of either one of these groups.

Yours v r; truly.

The Hotel Beautiful

Mr. Thos. A. Edison,

Orange, N. J.

My dear Mr. Edison:-

Chicaga, Dec. 8, 1998

You will perhaps remember the Assistant Manager of the Plaza Hotel, Max Thomsen, who had the pleasure of making your acquaintance, and also had the honor of looking after your accommodations for your last European trip, when we met in Paris at the Majestic Hotel. On your return from the trip you were kind enough to present me with one of your autograph photographs, which I still have in my possession and hold in very high esteem.

A close friend of mine here in Chicago, Mr. Herman Hahn, President of a large commission house, has begged me to write to you to present his son who is a civil engineer, by the name of Herbert Hahn, with one of your autograph photos. His father tells me that this is his life ambition, and his father is very anxious to help the boy realize this ambition as Christmas is now approaching .

I told him that I would ask you to do so, and that I was quite positive you would grant his request, which will be highly appreciated by all of us.

I am here in Chicago to build a new Hotel on the style of the Plaza, New York, which is to be located in a most ideal spot

on the lake front, and a special feature will be an up-to-date electric grill, as I have a very good friend employed in the Commonwealth Edison Company who has promised to assist me with this feature. The hotel will be opened about September lat, 1917, and I will take the liberty of sending you some literature on this beautiful place in hopes that I may again have the honor of your patronage when in Onloago.

Wishing you and Mrs. Edison A Merry Christmas and Happy New Year, I beg to remain, with kindest personal regards

Yours very sincerely,

Max Thomsens Manying sire of or Shaham Toke

P. S. Mr. Herbert Hahn's address is 6739 Newgard Ave., Chicago. Should you prefer mailing the photo to me, kindly send it care of the Kaiserhof Hotel.

Decombor15,1916.

Lr. Hax Thomson, c/o Anisorhof Hotol, Chicago, Ill.

#### Dear T. Thomson:

to Tr. 22 ion where of the 22 instant to Tr. 22 ion who receive and I rought to to the attention at once. To has autoproched a photo for Tr. Borbert Rehm, in accordance with your request, and I as mailing it to you under not to cover, to that you may have the opportunity of prosecuting it.

in. whice is obtramely busy on some special emperiment and has respected me to write this letter for him.

He wishes no to extind in his schelf his wishes to you for a Herry Christmas and a Heppy How Year, in which I beg to be allowed to join.

Yours very truly.

mesistant to .r. .dison.

4/1691.

December 27,1916.

Mr. Max Thomson, c/o Kniserhof Hotel, Chicago, Ill.

Dear Mr. Thomson:

note, and I hope you will accept it in the spirit in which It is written.

turned from Chicogo, and told no that he see inEditon's told represent marched to you standing in a
place in the degrees marched to you standing in a
of liquo, ote. I rether think that you may not
know of that, as I can sure you will not think it a
dignified place for a photograph of in- Editon inseribed to yourcelf, and I tiought I would droy you
toople criticis it in in- Editon be presented.

Wishing you the Compliments of the Season, I remain,

Yournvery truly,

Assistant to Mr. Edison.

1./7776

### Edison General File Series 1916. Automobile (E-16-05)

This folder contains correspondence about Edison's personal vehicles and about automobiles in general. The correspondents include chief engineer Miller Reese Hutchison, A. William Almquist of the Edison Storage Battery Co, and Andrew L. Riker of the Locomobile Co. of America.

Approximately 10 percent of the documents have been selected. The unselected items consist primarily of order slips for parts.

Tetran, and - personaliste

May 31, 1916.

Mr. Edison:

as you are aware, the right rear wheel of your Samplex came off recently, due to breaking of the outside ball bearing.

Such accidents can only be sageguarded against by regular inspection of your car, at which time all spring clips, nuts, wheel bearings, etc., should be gone over.

Alaquist tells me that he requested Ers. Edison about six weeks ago that she send the car down to the .mboratory about once a month for inspection, but this has not been done, because the car has been very busy.

S locomotive is thoroughly inspected after each 250 miles service, and it is running on rails. An automobile should be inspected at least once a month.

M. R. HUTCHISON.

NEW YORK BOSTON PHILADELPHIA BALTIMORE WASHINGTON GINGINNATI

## ocomobile

COMPANY OF AMERICA

EXECUTIVE OFFICES & WORKS, BRIDGEPORT, CONN.

BRIDGEPORT, CONN. June 16, 1916.

Just ordered a decommended Limoniae Can wood

Mr. Thomas Edison. Orango, How Jorsey. dead Eleanance

My dear Mr. Edison: Aff The Simplex people I understand that the art contemplating on the purchase of a Locombile Touring Can and that

there is some question as to whether our 1917 car has sufficient clearance for your needs. If you will be good enough to advise me just what clearunce you desire, it is possible we may be able to meet your wishes in this respect.

Awaiting the favor of your reply, I am,

Yours very truly.

## THE GREENE MOTOR CAR CO.

A. GREENE, Tremeres ne 1815 Mulberry

90 WASHINGTON STREET

NEWARK, N. J., June 21, 1916

Mr. Thomas A. Edison, West Orange, M . .T.

Tell him I found a new demploye of the clo lyce of have bought it, they prome

Dear Sire-Limousine.

I beg to thank you for your order for a Locomobile
The trim of this car will be arranged to Mrs. Edison's satisfaction in the next day or so.

At the time you decided on the Limousine, I spoke to you about making a comparison of the Locomobile clearance and your Simplex clearance, and since that time have been thinking that for the class of travel you described to me, and over the roads you say you want to use the car, a car equipped with a straight axle, giving you at least 17 inches clearance from the axle, and the placing of blocks of about 2-1/2 inches, under the front and rear springs, would give the flywheel a clearance of approximately 18 to 20 inches; and since you are fond of a chain drive our for this service, I would suggest that the 1911 Simplex in service for your workabe considered and rebuilt in I have re-constructed many cars for desert and mountain this way. travel in the South-West and throughout Nevada and California mining sections and am positive that with the above arrangement, ample clearance would be given for any road in the eastern part of the United States.

If this were done, and we could interest you in one of our seven-passenger touring cars for service about your works, we would be glad to handle the matter of the reconstruction of the Simplex, as outlined, if you care to take care of the expense in the matter, which I would estimate roughly to amount to between \$1000.00 and \$1300.00.

In addition to the above, we have received a letter from our factory, giving us copy of the latter written you by our Mr. Riker, and if you have considered our car in connection with your service, I imagine Mr. Riker would be glad to work out anything within reason for you.

If you care to make an appointment when I can see you and talk the matter over, I will be very glad to hear from you and meet you at any hour of the day convenient.

Thanking you kindly for your order and hoping to hear from you on the above matter, I am

Yours very truly
THE GREENE MOTOR THE COMPANY. Sales Dept. NEIBLE FOR LOSS OR DAMAGE BY FIRE TO CARS WHILE IN OUR CUSTOR



# JOHN G. DALE,

## SIMPLEX AUTOMOBILES

240 West Synstreet

NEW YORK,

Mr Thomas A. Edison, Orange, N. J.

Dear Sir:

As por my agreement, if you find that the clearance of your Simplex touring car is not sufficient. I will block up the springs to increase it, at no additional charge.

Yours very truly,

for John G. Dale.

WFR\*

Orcellian for 18/2/

July 28, 1916.

Mr. Edison:

I believe the following report will be of interest to you, re. the Ford auto that was overhauled in the Ford Service Plant in Long Island City two weeks ago.

I have now taken the engine down, and find it has been incorrectly assembled, and two cylinders so belly burned as to make them absolutely usoless. The passy when compressed, shoot into the crankouse due to the scord-burned of the cylinders, and the engine cannot be started when it is warm.

We have telephoned to the Ford Company, requesting that they send an inspector here to witness the overhauling job done by their company at a cost of \$135.92.

This car has been run 24000 miles in one year, which you realize is rather unusual for any car.

This car was taken out of my hands and used in Silver Lake, and has not been in the company's garage day or night for more than five months.

The attached correspondence regarding this car will be of interest. Please return same for my files, after you have finished with it.

Respectfully,

M. Edwar see coverpositioned massessee

Dear Sir:

Oct. 4, 1916.

Mr. A. L. Riker, Locomobile Co. of America, Bridgeport, Conn.

This is to confirm night letter sent you by

Dr. Hutchison, via Western Union last evening:

MR. EDISON SAYS PERASE HAVE WESTINGHOUSE AIR SPRINGS PUT

ON THE LOCATOBILE .. IMOUSING HE ORDERED.

M. R. HUTCHISON.

The above is, I feel, self-explanatory.

Respectfully,

CC-Kellow

Hutchison

NEW YORK HOSTON PHILADELPHIA HALTIMORE WASHINGTON GINGINNATI

# Locomobile

COMPANY OF AMERICA

EXECUTIVE OFFICES & WORKS, BRIDGEPORT, CONN.

CHICAGO
PHTSBURGH
SHINEAPOLIN
SAN PRANCISCO
OAKLAND
LOS ANORLES

BRIDGEPORT, CONN. October 5/1916.

Mr. Miller Reese Hutchinson,

Orange, New Jersey.

My dear Hutchingon:

I am in receipt of your favor of the 4 and would state but the state of the 5 instant and would state but the state of the 5 instant the state of th

Yours very truly,

a. L. Palka.

My wind

## Edison General File Series 1916. Aviation [not selected] (E-16-06)

This folder contains unsolicited correspondence requesting Edison's advice, assistance, or opinion on matters related to aviation. The correspondents consist of aviators, inventors, enthusiasts, and journalists. Some of the items pertain to Edison's role on the Naval Consulting Board. None of the letters received a substantive reply. Many bear a notation indicating that a form letter was sent in response, stating that Edison did not consider the inventions of others.

## Edison General File Series 1916. Bates Numbering Machine [not selected] (E-16-07)

This folder contains correspondence with F. H. Stanard, a traveling repairman who offered Edison his ideas on improving the Bates "7-movement" numbering machine manufactured by Thomas A. Edison, Inc. There are also inter

## Edison General File Series 1916. Battery, Storage - General (E-16-08)

This folder contains correspondence and other documents relating to the technical and commercial development of Edison's alkalinies storage battery in the United States and abroad. Among the documents for 1916 are numerous testimonial letters, which Edison solicited from customers after an explosion aboard an E-2 submarine in the Brocklyn Navy Yard in January raised questions concerning the safety of Edison's batteries. Related documents can be found in E-16-22 (E-2 Explosion).

Also included are items pertaining to negotiations with Vickers, Ltd., concerning British manufacturing rights. The correspondents include Edison's chief engineer, Millier Reese Hutchison, longtime Edison associate Samuel Insult; John F. Monnot of Edison Accumulators, Ltd.; and mathematician and electrical engineer Charles P. Steimmetz.

Approximately 50 percent of the documents have been selected. The material not selected consists primarily of letters of transmittal and acknowledgment and unsolicited correspondence that received no substantive response from Edison. CENTRAL COMMERCIAL AND
MANUAL TRAINING HIGH SCHOOL
NEWARK, NEW JERSET

9429

Mr. Thomas A. Edison West Orange, N. J.

have ) the Cans Explode

My dear Mr. Adison: the Cause is due to failure to

reply?

Yours very truly,

elliam Whener

WW ML

1433



200. Orange,

2nyhn20 NL 834pm

ex Chicage Ills Jan 24th 1916

Wm H Meadowcroft

Maisen Laboratory Dronge N.J.
Tell Mr Edison I will bring back with me all
data and prices on Jenny motor he asked General Electric
man for this I expect to see Mr Ford temorrow
W G Bee.

energy emonad Enly

January 26, 1916.

Mr. Edison:

I am now ready to take up the matter of the Walker truck representation, for solling to the Government.

a suspens that you also Mr. Insull a note, the your convolutions, collains has you think its yould be a good plant to come of it under the name of Mr. Moren, who is with me now, and let the whole termention be in his memo, so so not to projudice us by the truck makers against the Edison Batter; by such an arrangement.

I want to so aggressively after this work, and um taking it up with ward along the same lines for the smaller trucks.

The exectifications are being written at the present time, covering the electrical trucks for the Post Office Department, and I vant to mit the iron while it is hot.

I would write the letter for your signature, except that Er. Insull's connection of many years with you is of such nature us to render it better, I think, for you to word it in your own language.

H. R. HUZCHISON.

## GENERAL VEHICLE CO. ELECTRIC TRUCKS

### OPERATING UNDER

### THE EDISON BATTERY SERVICE SYSTEM

### AND

### THE MECHANICAL MAINTENANCE CONTRACT

### WHERE TRUCKS ARE LESS THAN 10 YEARS OLD.

The following figures may safely be taken as the maximum cost of all operating items except drivers' pay.

The figures are based on twenty-five working days, per month. In many lines of business the trucks are worked for more days, per month, in which case the daily cost is lower.

The average mileage, per day, as given, in no way prevents the truck from greatly exceeding this mileage on certain days.

The figures include:

GARAGE space including ordinary greasing and oiling; a fixed item.

BATTERY SERVICE which is on a mileage basis and subject to variation only as the charge for this service may be again reduced in the future.

TIRES as guaranteed by maker, which is about 20% more than actual practice.

MECHANICAL MAINTENANCE CONTRACT which takes complete care of the mechanical and electrical upkeep of the truck, labor and material included.

This contract is for a fixed sum, per year, and 80% of saving which should be made is returned to owner and driver.

Where upkeep cost exceeds the amount of contract, the owner pays one half of the excess. Such an excess should never occur. If it does,

a careful investigation is required. 31-ton 5-ton Average per day. 750-lb. 1000-1b. 1-ton 2-ton \$1.33 \$1.59 \$1.98 \$2.50 \$3.17 \$3.61 8 miles 1.46 2.76 3.54 4.04 1.75 2.17 12 4.93 2.56 3.29 4.27 2.07 20 1.74 5.08 5.92 30 2.05 2.42 3.00 3.89 5.69 6.72 2.74 3.39 4.45 40 2.34

3.03

2.59

3.73 THE HARTFORD ELECTRIC LIGHT CO. VEHICLE DEPARTMENT.

4.96

6.80

7.42

# You Have Asked WHY

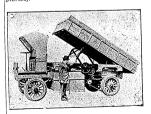
We Have Not Made a Point of the Increasing Price of Gasoline

The cost of gasoline to run a gas truck has recently increased by an amount varying from \$1 to \$3 per day, depending on size of truck, distance, etc. To the merchant who has assumed the cost of running his gas truck to be pasoline and oil plus some tires in the distant future, this increase seems a very serious matter and in reality it is serious enough. But the cost of gasoline is not the only cost of running at truck or even the decisive future.

## Gasoline Given Away

Would Leave the Superior Economy of G. V. Electric Trucks Untouched

The real cost of operating commercial vehicles is rapidly becoming known to business men. The increasing price of gasoline merely emphasizes the advantage of the fact already proven true under lower prices and which would still be true if gasoline were given away.



Hartford Electric Light Co.

# THE HARTFORD ELECTRIC LIGHT COMPANY



## NTIFIC AMERICAN

Published by Munn & Co., Ing., 233 Broadway

New York, Saturday, January 29, 1916

Cheer Lord, Dataturagy, January 29, 1916

Chies Allies Men Poulator, Product C. Usesh, Secretary, Grant D. Morro, Product C. House, Generally, Grant D. Morro, Treasurer, all or COI Brookway Conso D. Morro, Treasurer, all or COI Brookway Cheer Cheer Chee, V. N. v. as feccess Classification and Second Cheer Cheer Chee, V. v. as feccess Classification Editor and Second Cheer Cheer Cheer Alle Poularies and Editor Cheer C tournal is to record accurately and

de, mechanical and industrial 'u journal, it is in a postclopments before they

> ul to him timely the school such

> > 'ne -bant

which our continental position and immense littoral and our great foreign commerce entitle us to.

The paper, which will be published in the Suprin-MENT of January 20th and February 5th, is recommended to every one who would be informed on this - problem of vital national interest. Indeed, it is the duty of every American citizen to acquaint bimself with the situation before us and how it has come about.

## The Peril of the Submarine

N the submarine, medern wurfure has reached a elimax of frightfulness. Not only is the submnrine frightful in the destruction it metes out to the enemy, but in the horrible death it is ever ready to harf at its own crew if, for a moment, they should relax their vigilance. It has increased the difficulties of navigation tenfold by the addition of a third dimension to its direction of travel. Stone blind, in pitch black darkness, it must be guided through the depths of the sea, liable at any moment to be crushed against an uncharted rock or to bury its nose in a bank of

mud from which it cannot be worked free. But as if these perils were not enough, the submarine carries within its tight little hold stores of pentup energy, ready to be discharged at the slightest provocation. Death lurks in the warhends of the torprdors, any one of which is powerful enough to shatter a dreadnought and send it plunging to the bottom. Danger lies in the reservoirs of highly compressed air that are indispensable to the navigation of the boat; in the liquid fuel used to drive the engines when the vessel is on the surface; in the electric batteries that turn the motors when the best is submerged. These last may seem the safest of the lot, but it is impossible to store energy without danger. Hydrogen is generated when the batteries are charging and discharging. The charging is done when the boat is on the surface, and it is comparatively easy to get rid of the gases, but when the battery is giving out its energy to the motors and driving the vessel under the sea, all the hatches must be closed, and it is impracticable to discharge the gases out of the boat. A ventilating system must be used to carry them away from the batteries and dissipute them throughout the hold of the vessel. A still further danger of the lattery is the possibility of letting salt water come into contact with the electrolyte, which would result in the generation of chlorine gas and

the polyoning of the crew. It was with the purpose of eliminating this last dan ger that experiments were made with the new type of lattery. The nickel-iron Edison cell uses an electrolyte consisting of caustic potash, or lye. No dangerous reaction takes place when sait water comes into contact with this electrolyte. However, this danger is already practically non-existent even in lead butteries, because as they are now constructed there is absolutely no danger of leakage, and not until the hold of the vessel is filled with water to a level of several inches above the top of the big batteries is there any possibillity of forcing sait water into them. When a submarine has reached as serious a condition as this the chances of the crew are decidedly hopeless, even though

they be not exposed to the danger of poisonous gases. While intending to eliminate one danger, however, the nickel-iron buttery has intensified another danger Fully twice as much hydrogen is given off by the Edison battery as by the standard lend battery, which is practically universally used. Furthermore, as the carbonic gas in the air has an injurious effect upon the caustic electrolyte, the individual cells of the lattery are not properly ventilated. This results in the forms tion of an explosive mixture of hydrogen and oxygen gases which is always confined in the cells,

The explosion in the E-2 the other day was undoubtcelly due to the large volumes of hydrogen given off by the Edlson battery while it was being subjected to tests. Such was the finding of the Bourd of Investigation. At present writing the Board of Inquiry is still continuing its hearings and has not yet fixed the blame for the accident. However, it is readily appurent from the fladings of the Board of Investigation that the nickel-iron battery, while adding practically nothing to the safety of the submarine, introduces an element of danger which does not exist in the lead-

Course Live de santter

The name of Kasani and - Relief and the medical control

type of battery. 

## [ATTACHMENT/ENCLOSURE]

M Madowal Smu actim stury taken about this. Dur Sc. anderson Rucks al article should Cauldra Mr Hulches to Aduly - Dout Chu

## [ATTACHMENT/ENCLOSURE]

This atticle newed appeared of he had with a lead attery DE WOULDNY Think In would slaud In it of fund of fours. The Court whed no not to talk to newspapers much the Duguery work, for that does not the + though my neadow cart for coun take any action for mich. If Dos so while

## [ATTACHMENT/ENCLOSURE]

Anjadice the court a famor me.

LANGER LE CONTRE

February 10, 1916.

Mr. Edison:

I have been giving considerable thought to the matter of our rolations with the General Electric Company and to the Westinghouse Company, and want to lay the following points before you as being actual facts and not personal deductions:

Electric people, not long any. "Maine is doing a pood deal for the 0. E. by using nothing but 0. E. apparatus and boosting 6. S. to the extent of recommendations, etc. apparatus and boost to the control of the contro

General Electric Company, in the way of small motors, etc. as a matter of fact, we ere paying about five percent more for these goods than we could purchase them for the cold as a matter of the cold purchase them for if we more laid the entire matter open the cold purchase the form of the cold purchase the contract to the General Electric.

Westinghouse Company did not do very much for the Mison Interests. But now that Coorge Testinghouse is dead, and cother interests her now that Coorge Testinghouse is dead, and cother interests have one in, the situation in cutricyly reversed. As a matter of fact, the Castinghouse have prevent lead for the Company. For instance, the Westinghouse Company is now developing an industrial bag-cage track, etc. for use about industrial plants. Orders dame direct from Pittsbugh to the Hew York and of the line to come out here and take the matter up with Substantian these was of the Editor the Editor than the company in the Company of the Editor than the company of the Company o

4. It seems to be the concensus of opinion among Westinghouse men that the Westinghouse Company (111, intime, go into the manufacture of commercial trucks. All their engineers there are distinctly Edison from the standpoint of the Edison

Storage Battery. They are using Edison Batteries exclusively in their mining locomotives, and are boosting the name and the battery for all it is worth.

to the home of the rank donls we have received from the home of the G. N. Company in time past, and are now receiving, and in view of the funct that the "estimphouse Company and its treatment of us is quite the antithesis of the G. N. Company do you think it fair for us to give all our business to the "eneral Electric Company? They come out here, make fillial protestations, etc. to you, and then turn right ou are around, beind your back, and act quite sontrary.

- 6. I guite inderstand your feeling toward the G. E. Company as having been the company winch you started, etc., but constitues even a son or daughter can comport himself or herself in such manner as to entirely alienate the affections of the parent. It appears to me the G. E. Company in such a class.
- 7. Take, for instance, the matter of the incandescent lamp for motion picture machines. Fo loaned the Harrison Lamp Works two projecting machines. We made for them two piccos of film for testing the lemp sloweside of the arc lamp. To gave them tachnical advice in the liqu of motion picture work. They perfect un incandescent lamp as the final result of the original request made by us for the incandescent lamp for the Home kinetescope, years ago, then it is ready, they tell the Power Company all about it, and had been supported by the first control of the first lamp and the firs
- 8. The sooner we realize the fact that the G. E. Company is being operated from Wall Street, with all the cold blooded, non-sentimental actions and policy of Wall Street, the better of Cold Wall be.

MIT Chill The rating & Character-istically 5-16(7x4) anger rolling on 5-15/(x.) City the most neighboret toto now toggin MANK CAM tomberoun 2/11/16



## <u>])etroit [Axicab & Transfer (]o.</u>

TELEPHONE TAXICABS MAIN 5620

GENT, OFFICE 42 - 44 - 46 RANDOLDH ST.

DETROIT Feb. 25th.,

Board we have go Mr. Thomas A.Fdison, Orange, New Jersey Dear Mr. Fdison:-

Peplying to your communication of the 23rd., we desire to say that our experience with your battery in service with this company has been such that it completely substantiates the previous experience and recommendation of our engineer.

The unfortunate experience the United States Government had in the U.S.S. R-2, does not necessarily decide the merits of your This statement is borne out battery. by the fact that other trouble has occurred recently resulting in the loss of life, an example of which being the submarine which failed to return to the surface, resulting in the death of the entire crew. The whas in mind the under-sea boat that was sunk in the Pacific Ocean.

We commenced using your battery here in an experimental car some two years ago. We have since then added to our equipment from time to time until at the present time we are operating some thirty sets of batteries. Te are at the present time increasing our equipment and will in the course of a few months have in operation seventy-five batteries. So far, we have not heard of anyone, particular-ly those in daily contact with these batteries, being in need of medical aid in order to restore We believe such a statement them to health. can be only made by rersons, who speak of something with which they are not at all familiar.

Regarding the safety of the operation of the two different types of battery, we believe that no doubt exists in any mind competent to judge this matter that the menace of operation is greater with the lead than with your alkaline type of battery. Further we believe this statement to be borne out by



# <u>DETROIT [AXICAB & [RANSFER (O.</u>

TEEPHONE TAXICABS MAIN 5620 BAGGAGE MAIN 5353

GEN'L OFFICE 42-44-46 RANDOLPH ST.

DETROIT Feb. 25th.,

Mr. Thomas A. Edison.

Page-2.

the fact that wherever intelligent thought has been brought to beer on the use of storage batteries, it has resulted in the use of the Edison Hattery.

That the lead battery interests are leaving no tone unturned to discordit the Falsen Storage Fattery seems very logical to me. It is only necessary to review the listery of the lead battery for the lead tifteen years to realize that up to the to install their possible of results of the lead to the install their seems of the seems of the lead to the lead and the seems of the lead to the lead to the lead of the lead to the l

Proof of all our contentions and statements is the fact that we are making a success of our electric car business, and attribute the greatest share of this favorable showing to the performance of your battery.

If you care to use any of the above statements for repetition, or otherwise, you are at liberty to do so.

Sincerely yours,

DETPOIT TARTOAR & TRANSFER COMPANY

Secretary & General Manager.

EBISON STORAGE BATTERY
G. E. GASOLENE SETS

Complete Steamship Plants
Installed

Special attention given to Yacht and Power Boat Equipment. Search Light, Storage Batteries and Fixtures. Private and Municipal Lighting Plants.

All kinds of Alternating or Direct Current Apparatus Installed. Direct connected Steam or Gasolene Generator Units. Electrical Driven Machinery

Mr. Thomas A. Edison, Edison Laboratory, Orange, N. J. Smith-Meeker Engineering Co.

MARINE ELECTRICAL ENGINEERS

AND CONTRACTORS

123 Liberty Street

TELEPHONE 1531 CORTLAND

February 28, 1916.

New York

Dear Sir:-

for all purpos

We trust you will pardon our delay in answering your commundeation of the 23rd inst. regerding your Storage Batteries, as the facts which we are going to bring to your attention, happened some years ago, and we wished to take a little time to refresh our memory regarding details, before writing you.

First, we might say that we have purchased, installed and operated various types of Lead Battery for the past fifteen years, although our experience has been very slight with this type of Battery since we storted to handle your Battery in July 1910.

Storage Batteries as applied to private year requirements, there has been very little care taken it will be to private year requirements, there has been very little care taken it will be to private year regards ventilation, proper space for necessary upon an anseasability. The various Baxel Architects are the proper year to the proper parameter of the proper space were not only dengerous, but entirely against all rules of Storage Battery engineering.

These conditions now however, are changing for the better, due principally to the various accidents which have happened in the last few years, caused by the explosion of Storage Battery gases.

one of the principal talking gother which we have used with the selling of your lattery, as satinat the Lead type for private yacht work, was that there was no subject only and therefore no chance of damage to dock in filling the Battery, to the hull in case the Battery leaked and to the surrounding metal work from the gases.

The writer has personally seen large red spots on the deck of private yealts, pipe covered with correction from storage bettery gases and fenders and ropes completely ruined from being in the same compartment with a Lead Storage Battery.

We might mention one instance of the Schooner Yacht "Atlantic",

which had a set of Gould Batteries originally installed in a comperiment underneath the owner's state room. Due to that being a very slight leak in one of the hard rubber jars heal for several part of the cell was empty, the solid jar production of the cell was empty, the solid almost eaten through the thull and before this was discontinuously and almost eaten through the plating of the vessel. It is also also together with the ruining of the carpets in the room above, from the gases, made it necessary to move the Battery to another part of the vessel.

The writer personally had a rather unpleasant experience with this same Battery, when he happened to be on board of the Yacht looking of the damage done by this socident, when the Assistant Engineer coelidarity touched the terminal post with a portable light, making a short circuit, which caused three of the cells to blow, with the result that besides the damage to the cells, the writers as well as the Engineers clothes were runned.

Of course, it is needless to say that with your Battery none of danger from gases between your battery and the various lead types, we will ste the following instances, which will give you a fair idea of the experiences which we have had in connection with this point;

Some few years ago, Mr. Wm. K. Vanderbilt, had on board his Steam Yacht "Graratule" between thirty and fourty cells of type 2-15 Chloride Accoundator. They were located beneath the galley floor in a compartment that was not properly ventilated, although the floor was not tight over the Battery. The Assistant Engineer raised a trap door to go down into this compartment, when there was a terrific explosion which eart him to the Hospital for a number of weeks and wrecked that part of the boat.

installed in the Fower Boat Dolph. These Batteries were in a tight box lossted underneath the dining room floor and without warning of any kind and with no one near it, this box exploded driving the dining room they through the deek. Fortunately no one was hurt.

owned by Mr. Albert Smith of the Vitagraph Co., had me explosion which we want to the one on the S.T. Or the only of the Vitagraph Co., had me explosion which was very similar to the one on the S.T. Or the only difference being that the happened at New London three bears are the which you will remember a damage on the control of the way of

The writer personally saw the Colonia as well as the Cristina very shortly after the explosion, and would state that the force of the explosion was apparently the same in each case, although the lead Sattery was of considerably less than one-half the size of the Edison Battery. There was no ventilation on either one of these boats.

work, with one or two exceptions. On the steam Yashts "altrie" and "five formerly womed by Senstor Aldrich, the Storage Batteries were located in the shaft alley directly underneath the buner's quarters. In both cases they had a flood of salt water from the owner's batheroom which leaked down through

the floor into the open lead cells. As soon as the Ohief Engineer noticed that there was trouble with the lights, he entered the bettery comportment and was almost over-come with Chlorie, see before he could get out. This of course, is a condition that would are rarely happen on board of a private yealt, and could not, if there plumbing system had been in proper shape.

chearvation, that all of our personal oginion taken from our experience and construction, that all of our outcomers believe that the Bitson Battory is a safer, less troublesome and more satisfactory Battory for our class of work, then any type of Lead Battory. We have installed between classon thousand and twelve thousand cells or your legs there is not a dissettisted was not state that to the Marc than one-half of these cells have been outdown the been dissettified users on the have been dissatisfied users of fixed Battory.

We trust the information which we have given you will be of service to you and we will be glad to help you in any way we can at my time in this connection, as we have tried out your Battery from every engle in connection with our particular line of business and it meets our requirements in a most satisfactory way.

Yours very truly.

The SMITH-MERKER ENG. CO.

CABLE ABBRESS "INSULL CHICAGO"
TELEPHONE RANDOLPH 1200

EDISON BUILDING
72 WESTADANS STREET, CHICAGO, ILLINOIS
FEBRUARY 28, 1916.

Thomas A. Edison, Esq.,

Care Edison's Laboratory, Orange, N. J.

My dear Mr. Edison:

I have your letter of the 23rd, with relation to the data you want as to the eafety of storage batteries. I will have the information gathered and sent you at an early date.

Yours truly,

Januar Surace

CKARLES E, STEINMETZ, A.M., PH.D. WENDS, LAVENUS BCHENECTADY, N.Y (Left) Land (February 28, 1916 on, Alexander (1997)

Mr. Thomas A. Edison, Orange, N. J.

My dear Edison:

I have followed with considerable interest the incidents connected with the introduction of your nickel steel storage battery for submarine propulsion, and noticed with the greatest regret, in connection with the accident at the Brooklyn Navy Board, the extent to which incompetency and commercial interests still influence such serious matters as the preparation for our national defense.

Without going into engineering details: there are a few matters regarding storage batteries, which are obvious to any engineer:

In any storage battery, the ampere hours input during charge must be materially higher than the ampere hours cutput during the discharge, and the difference appears as hydrogen and oxygen. Every storage battery thus is a potential danger of oxplosion, if the gases are not properly taken care of.

CHARLES C. STEINMETZ, A.M. PH.O. WENDELL AVENUE SCHENECTADY, N.Y.

The essential characteristic of the nickel steel buttery, verified by general experience - Including my own many years experience with lead butteries and nickel steel batteries in my laboratory - Is that the nickel steel cell to remuin in good condition, does not require the regular care and attention, which the lead battery requires. In my opinion, if there is any place where the ability to stand neglect and abuse is of vital importance, it is in the submarine under service conditions. The conclusion from this, in my opinion, is obvious.

There are other features, which are of importance, even if secondary in my opinion to that all important one of the battery being there and in operative condition when needed after the indifferent care or even abuse unavoidable in service; such as the greater mechanical strength of nickel and iron, compared with lead; the danger of corrosion from sulphuric acid, while alkadi solutions do not attack iron, but protect it; and the danger of chlorine gas in case of accidental entrance of sea-water to the lead peroxide and acid of the lead battery.

In my experience, the lead battery is very satisfactory as reserve or stand-by bettery in an electric station, and for similar service, where it can be given regular and careful attention by expert engineers, and is never abused, and where low cost of the investment is of first importance; but where such continuous cure is not feasible, and reliability is essential, the lead battery can not be satisfactory.

I hope you have got over the unusual dissipation of staying at our Illuminating Engineering Society dinner until midnight, and had a comfortable ride home.

With best regards,

Yours,

CPS-SW

Charles P. Steinmertz,

## Illinois Contral Railroad Company. Office of Vice President.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:-

I have your letter of February 23d. So fer as I know, there has been nothing said about our use of the Edison batteries. We have found the batteries satisfactory and have experienced no trouble whatever with them.

I think, from our experience, it would take a good deal to shake the confidence of our electrical people in the Edison Storage Battery.

Yours very truly,

The Edison:

Mr

From perusal of letters, records of troubles of crimplaints, studying of curves of it is apparent that

1st Na OH cells are ok for normal + less than normal disolaries rates when not too cold.

2 MasH cells are not adapted to heavy discharge work

329 A we can't Junion Kull at to got away with an ucument (Inc) In the potash, we should be successful form in potash and rum in 42 KoH + 1/2 ha OH

415 g caur du that, form in KOH
and run in MaOH
5" If caur du that, form in 1/2 KOH+1/hMay
and run in MaOH.

The character of the business has a great deal to do with us. In some conditions a 5-tm truck with nash cells is ok. - when the roads are good & level.

Bur in other conditions of heavy grades, heavy roads oc.,

Mach is truiguey discirally on the battery won on smeller trucks.

The had prople are capitalizing this against us. In Washington, where I had the trade trade that the when trade they office they, the lead prople are scattering the news tradecast that had the cits are not many so grow as KOH, this hunting us.

For heavy work I commently along even raising the price of the battery to take care of the increased CAT or potant, rather than try to get by any longer on straight not on such work.

I have my prejuded in the matter as I without note the involvation with unbrased mind, Running nothing about Na 6 H Electrostz.

Ser attacked extracts, condinoed,

alor ou attackel curves condused as much as I could have them made In from

Summary

Comming Sugar Astoning Co. brught & clock trucks + 3 Posttuins (20 a-6 cills) after

demonstration of Continuous Transp Co. with KAH Cills.

We delivery the lastening for These trans with

Soda electrolyte.

The trucks wout gire I hours' scores with

3 butteries, and will not negotiate spades

prenowly made with demonstration frace.

Ebling Brewery M. J.

Track good detering to Them has socia. Is
falling down as word make grades any runs
very slowly.

2/0/10.

Ausucan Meta Co. N.Y

Reference 60- 95 K.O.H. cepts with
60- A-10 Cells, with Soda. Johnsk worth
make bur 5 miles and gots stuck. Meta
Co. want the A-8 cells brack. Sevens
Saturation.

Commonwealth Edison Co.

These people have a number of Edsom Cotting symphole Trucks.

Recently filled with Soda about 10 battures.

Inches Slowed up and showed manificial capacity.

· Commonwealth w. sucked so vehousety Company substituted potach. Inches SK now.

Commun.

Brussal loss of capacity due to open of cutodown electrogie temps, due to open bettery comparisonsts.

They have 10 G. V. trucks equipped with 60-a cills. For small. Should be \$15 for a

2 ton truck. The soda, bring less voltage

In all of above reasons, would not operate.

Metropolitan Opera Nouse, ny. Have had 65 - Q & cells in service & years. Replaced by 65- as CElls with Soda. 1st day car get stuck after making only 4 miles, all level good. Stalled on weline to marriation Britze. Sear to Sense Station 4 stalled at sume place after newargs. Then discharged to zero + charged 12 liss, how truck would not lake the grads. Removed Soda + substituted Potach. Operation now suturty satisfactory Socia Electrolyla Hom & Hardault My stronger lin Bought Commended douch to truck Gor stuck repeately, 60-at crus, Soda. Had took made of voltage or + E. Company substituted Potash. Jouch OK now, Because Lada wramy

Cramp. Shipbulding to

Bought one - 4 for Communical buck ruth 60 - 410 culs, Sola. One 5 for nuth 60 412 culs, Sola.

Musatiofactory performance after long and repeated toots.

Erawlo finally notified Communical Coto Substituted Saag.

Sumpsom succeeded in staying action mutal social could be removed of potach substituted.

Inchos saliofactory now.

Service is Severe, heavy grades re.

Doda wrong

| Mildism: normal Rate Discharges.   |
|--|
| (1)- YEllow curre, cells Formed in Na OH and Run in na OH                            |
| (1) Purple curve, cells Formed in 1/2 KoH+ 1/2 MaOH.  and Run in 1/2 KoH + 1/2 MaOH. |
| (3) - Red Curve, cells Formed in Kott  |
| (4)- Black Curron, cills fromed in KOH   |
| (5) Gram curr, calls formed in KOH,  |
| Deductions:  # 1 Best 2 next hor Dout well and                                       |
| # 1 Bost<br>2 rinx hor Dout<br>3 " " this  |
| 5 poorest.   |

MBK

# Mr Edison

Black curves are 21% K.O.H Cills.
Red " 15% Nach"

Discharge at Gates varying between /2 normal + 3+1m2 normal

# SEductions from these Curres

(a) - Potash cells average letter than Madt cells

(b) Potash Cells have higher aways Witage Than Malt cells

on discharges seeding normal.

(c) Potash + Ma OH ot//s have

about the same average.
No Hoge at normal + subnormal ratio of discharge.

CHICAGO GREAT WESTERN RAILROAD COMPANY

Mr. Thomas A. Edison,

Orange, New Jersey.

CHICAGO. Moroh 1, 1916.

Dear Sir:-

On my return from the south I find your letter of February 23d:

Your batteries have been in service on this line since March, 1912, commencing with a test of twenty-five cells. The number has since been increased at various times until at present we have eleven hundred cells in daily use. The battery has given perfect service; we have had no cells damaged by explosion of gases during charges; our battery compartments are not specially arranged to accommodate your cells, being the same as we formerly used for the lead batteries. As far as our experience goes, there is absolutely no menace to life or health in the care of your betteries, in fact, they are better to work with than the leadsulphuric combination. I cannot possibly think of anything that could be criticised in connection with your batteries. They have reduced our maintenance from ninety dollars per annum for lead batteries to eight dollars per annum for your type, and this cost is figured after four years of use.

You may use this letter in any way you please. I am very glad indeed to be able to write it.

Yours very truly,

3 M. Hellon-Presh



# ATLANEIC (GAST HIM RATEROAD (OMBANY)

R. E. BMITH, CONCERL BUPERINTENDENT OF MOTINE POPER OFFICE OF GENERAL SUPERINTENDENT OF MOTIVE POWER

WILMINGTON, N. C. Mangh 2nd, 1916.

Mr. Thomas A. Edison,

Shower Have

Orange, New Jersey,

Dear Sir:

-: Confidential :-

I am in receipt of your confidential letter of the 23rd ultimo, and take pleasure in complying with your request to give our experience with Edison storage batteries:

We have had no experience with storage batteries, except in our lighting service, in which we have both Edison and lead batteries.

At the present time we have in service 1025 cells of Edison ear lighting betteries, with an average age of twenty-two mothins, and a last hearing a service eight months; and 464 colls, and a last terries. (The average, as well as Salson many service of the latter cell, is greater than the Major cells, but it is impossible to give an outer there have been many remevals and replacement of which close records have not been kept.) The Bailson batteries have, have been many remevals and replacement of which close records have not been kept.) The Bailson batteries have, up to the present time, given much better service, longer life, with lower cost of maintenance than the lead batteries.

have had .To explosions of Edison betteries, but had no explosions of Edison betteries, but nous serious. There was an explosion of a lead bettery under a Pullman ear, which set fire to the battery box, and would probably have burned the car had not the Stire been discovered promptly and extinguished.

You will note that I have confined my statement to the age and comparative safety of the two types of batteries, which I presume are the only points you desire us to cover.

It is entirely agreeable to me to show this letter, confidentially, to the Secretary of the Navy.

Yours very truly,

Krink

### The Bultimore & Ohio Railroad Company.

BALTIMORE, MD.

A.W. THOMPSON, THIRD VICE PRESIDENT.

My dear Mr.Edison:

White the second of the second 2,1926

on line the 25th since which the la law he had a tall with on bloctriced in jumps, and find that he have no definite record shorthy exploring that have converted with lead between prior to three years ago. However, alone the equilibration of a world of three years ago, encursed with lead between 1 world of three years ago encursed supposition to a world of three years.

of lead betteries and is miscon been explosions in [5] soins of lead betteries and is miscon betteries, as been indeed and of betteries are less indicentation of betteries are consistent of the miscon explosion of the miscon explosion which is explosive under contain conditions, it is expected that there will be alight emplories from time to time. The lead betteries which to have been using new provided with lead rebler covers, and the result of explosions is separation danyones. To have had case cases of personal injury to employee.

Micro batteries there can be considerated the explosions of found be considered family be considered family being in the ordering for build be considered family being in the building out of the cides and top of the con. In but we instance has the damage been sufficiently great to necessitate taking the batteries out of service. It is the opinion of our Electrical Majmacry our car Highting operating and considerably less danger from the Millson than from the load batteries that there is committeently less danger from the Milson than from the load batteries.

I have no objection to your giving this information to when you please, but would not, of course, care to have it quoted in the form of an advertisement.

With assurances of my respect and esterm, and with kind personal regards, I cm,

Yours very truly,

Mr. Thos. A. Edison, Orango, New Jersey.

Porsonal

AW, Thompson,

3/3/16

Mr Edison: monnox called me last week Status he is in receipt of an order from the admirally for 266 Type 5-13 cico for a boar the design of think In which I have prenously received. Forted Fox and also carted the admirate through capt Grand (the naval attacks) that we could not ger 266 Jeppe 5-13. Nur could get 272 dype 5-12 cells note that bout, I have received a telephone. Jomn capt Gamer today varyent from the almorating " Regarding Edisin Battery, tur hundred and swenty Two Jeffer S-12 will be satisfactory,

I have thingfor cabled Fox last night, by defening delivery (24 hour) rate as frunos: admirally calles through attache 272-5-12 Satisfactory, ain preparing sand layour! DE// monnot send formal admiralty order deliving fas new fork payment here. harr started work will rush. Wateriam" This order amounts to practically # 90,000.00 and I profer the administry

In a bill of goods of this size. So I awar the formal odn. we are doubths property sage in grows ahead with the work as capt banner says the cable

to him is in reply to the ray complete cable be sent the admirating army request. IN und take several rumites to complete the order and the sooner we get it into the bor the somer Justen orders will come in. So please instituto Bachman A go ahead to save time. Iwill gir all the formal papers assoon as I return from Washington morday The ordering of the fathery signifies to Saville That ! Vickers will accept from towns for manufacture of fun battains in England as they stated

positively to bein their would not order a battery nulssos they could make gutter ones for Atten Submarines, in Ergland.

Dam good to Washington at
102 for key of bold for their until
Sumbay afternoon. Will report
for for more day morning.
Am attending a reception at
the White House tought, by
invitation of the President.

CAGLE ADDRESS INSULL CHICAGO" LEPHONE RANDOLPH 1200

CONFIDENTIAL.

Thomas A. Edison, Esq.,

Orange, N. J.

My dear Mr. Edison:

I have your circular letter, addressed to
me as President of the Walker Vehicle Company, with relation
to the question of safety of your storage bettery, and
enclose you herewith letter from Mr. Wm. A. Fox, Vice
President of the Commonwealth Edison Company. Attached
thereto is a letter from Mr. E. O. Schweitzer, Chief Testing Engineor of Commonwealth Edison Company; also a second
letter from Mr. Schweitzer to which is attached a communication from Mr. Ernest Lunn, Chief Electrician of the Pullman
Company; also a letter from Mr. George R. Walker, General
Superintendent of the Walker Vehicle Company, all of which
I hope will be of use to you in connection with the inquiry
you made of me.

Yours truly,

Launce Eusnie

Form G-9

## COMMONWEALTH EDISON COMPANY

DATE March 2, 1916.

то

SUBJECT

Mr. Samuel Insull, President.

Dear Sir:

In accordance with your request I have made inquiries of our Engineering Department for opinion on the comparative safety in operation of the Edison battery as against the lead types.

In addition I have obtained an expression of opinion from Mr. Lunn, Ohief Electrician of the Pullman Company, on account of his great experience and position of authority in the storage battery field.

Besides letters from our Mr. Schweitzer and Mr. Lunn I attach also one from Mr. Walker of the Walker Vehicle Company, whose opinion should have weight on account of his familiarity with the operation of both types of batteries in many scattered installations.

They all seem to point to a conclusion that there is apparently little difference in liability to explosion, while at least for motor truck propulsion the Edison battery is the more desirable type.

Vice President.

FW.

Rnc.

50M 12 8-15

COMMONWEALTH EDISON COMPANY
DEPARTMENT CORRESPONDENCE

DATE March 2, 1916.

то

SUBJECT

Mr. Wm.A. Fox, Vice President.

Dear Sir:-

Herewith please find letters from Mr. Ernest Lunn, Chief Electrician of the Pullman Company, and from the writer regarding the subject of Edison Storage Esteries, in accordance with the conversation with Mr. G.A. Freeman.

I trust that these letters meet your requirements.

Yours very truly,

EOS: D -- Encl.

rs very truly,

s.

934 11-10-15

## THE PULLMAN COMPANY

OFFICE OF THE CHIEF ELECTRICIAN

ERNEST LUNN.

CHICAGO. Maron 1st, 1916.

Mr.R. O. Schweitzer, Commonwealth Milson Company, Market & Weskington Streets, Chile age.

my dear Mr. Schweltser:

Confirming our conversation of this merming relative to my experience with Adioon batteries while with the Commonwealth Adioon Company, and conticularly during the geveral years that I was President of the Valker Vehicle Company of Chicago, manufacturers of communication tracks; I have to say that the results were uniformly good. Wahicle butteries of all sizes were used and to my knowledge there was never any question as to the batteries delivering their full-rated capacity. To explosions due to ignition of one given off by the batteries were ever reported. It was the practice to properly ventilate the pattery compartments and otherwise take procedutions to prevent such explosions. The same precautions were taken in case lend batteries were used.

Yours very truly -

Emish Runn

FORM G 9

COMMONWEALTH EDISON COMPANY.

4827

IPANY, DEPARTMENT CORRESPONDENCE
CHICAGO March 2, 1916,

то

SUBJECT: EDISON STORAGE BATTERIES.

Mr. Wm.A. Fox, Vice President.

Dear Sir:-

Edison Storage Batteries in common with other types of storage batteries give off hydrogen gas while charging. When the charging operation is nearly completed the cells gas freely. Hydrogen gas is highly inflamable and it is therefore necessary that the battery compartments be well ventilated in order to avoid explosions from the ignition of the escaping gases. The amount of hydrogen gas given off by Edison Storage Batteries is greater than with the lead batteries but there is no difficulty in eliminating practically all danger from this source by proper ventilation.

The Commonwealth Edison Company has been using Edison Batteries for the past seven years on its electric vehicles, and at present has one hundred and twenty vehicles equipped with those batteries. We are told by Mr. C.F. Clark, Superintendent of Fransportation, that during all of this time there have been only two cases of trouble due to explosion of escaping gas. Both of these cases occurred while the batteries worn being charged and were clearly due to the fact that the battery comparisons had not been epened for free ventilation. The damage done in either of the show cases was not material. Mr. Clark also etated that he deep not consider this matter of any real importance as it is not at all difficult to

DEPARTMENT CORRESPONDENCE COMMONWEALTH EDISON COMPANY.

то

Mr. Wm.A. Fox.

CHICAGO

have proper ventilation while charging. He also seems to be well satisfied with Edison Batteries in general, and considers them much more desirable than lead batteries for vehicle service.

NJC:D

## Malker Dehicle Company

WALKER COMMERCIAL ELECTRIC . EHICLES CHICAGO ELECTRIC PASSENGER VEHICLES GENERAL OFFICES AND FACTORY 531-545 WEST 39" STREET CHICAGO

CHICAGO ELECTRIC BALES

March 2, 1916.

Mr. William A. Fox, Vice President, Commonwealth Edison Company, 72 West Adams Street, Chicago, Illinois.

Dear Sir:

In response to your inquiry for my opinion as to comparative safety of Mison Storage Battery and "lead" betteries, will say that both types give off ges while charging and both require ventilation (simply the opening of the doors or hoods of bettery comparation requirement. The observant teries while they are tightly enclosed with no vent, removes all danger of explosion of gas, as it is not given off in sufficient cunnity unless that it is not given off in sufficient cunnity unless that it is not given off in sufficient contributions of the contribution of th

We have now had thirteen years experience in the maintenance and memufacture of electric vehicles coulpped with storage batteries and over six years shill be operation of the operation of the properties of the with our trucks, we consider the Misson battery not only more satisfactory but cheaper in the long run. He have been brought to the conclusion not alone by our own experience by used load of the properties of the wear of the properties of the wear our studenties of the Edison type.

Yours very truly,

Quo. B. Walker General Superintendent.

AI & \A/

IDIBON DALIBRIA

NORFOLK & WESTERN RAILWAY COMPANY

ROANOKE, Va., March 3, 1916. B/

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

Referring to your confidential letter of February 23 in reference to the use of your type of battery on the Norfolk & Western road:

Beg to advise that the operation of your batteries on our road for the past three years has been entirely successful from every viewpoint. We have handled these batteries on and off the cars in similar service where we originally used the lead batteries. We have also had them under terminal charge where cars have arrived with batteries exhausted, and we have never had the elightest difficulty in handling them, either from an electrical or mechanical standpoint, and the entire installation has been satisfactory.

Particularly in reference to the matter of safety, we have absclutely no complaint to make, and the question of handling these batteries by our usual car lighting electricians has never caused us any trouble whatever. We have never had a case of gas accumulation which has caused us the slightest trouble with the cars in operation on the read or standing at terminals on charge.

Yours truly,

John a Tilcher



## THE HARTFORD ELECTRIC LIGHT CO.

266 PEARL STREET HARTFORD, CONN.

IN YOUR REPLY REFER TO

Mr. Thomas A. Edison,

Edison Laboratory,

Orange, N. J.

Menulturelle largette 1916.

Dear Sir: In reply to your favor of February 23, 1916.

The Hartford Electric Light Company's experience with storage batteries dates back to 1896, and includes the batteries of lead types for Central Station work as well as those for wehicle work. This Company has used Edison Batteries in vehicle work for the post five or six years to some extent and to a very large extent in the past three years.

The writer has been in personal charge of the Company's batteries since 1899. The question of ventilation, while an important one, has never proved a serious one in our work. We have found it no more trouble to care for Edison batteries in this respect than for less batteries.

We trust that this is the desired information.

Yours very respectfully,

THE HARTFORD ELECTRIC, LIGHT OF

WAT: FS:



COMMERCIAL MANAGER PHONE MAIN 4000 THE DENVER GAS AND ELECTRIC LIGHT CO

GAS AND ELECTRIC BUILDING
IS TO AND CHAMPA STREETS
DENVER, COLO.

ELMER M. JACKBON
CONQUETING ENGINEER
ELECTRIC VEHICLES-BATTERIS
TRANSPORTATION

10-16 Head graft

Hr. Thomas A. Edlson, Orango, H. J.

in dear lir. Edison:

Rest .

It is with the greatest of pleasure that I received your letter and I consider your request for a statement from no the highest compliment I have not while in this work, and at the same time. I consider it a privilege to have the eigenfunity of stating to you that I for one, appreciate what a wonderful contribution the Malson bettery is to any mation, conditate, corporation or individual that may have an application for a storage lattery.

Incommen as I intend to add the weight of this Company's statement over my signature, I will reply specifically on the second page.

I was a visitor at your storage battery plant and works in the latter part of October and the first part of Novamber, at which time you were in the West. I regretted at that time your absonce and yo acceptant immbility to meet you again personally, but I was heartly and generously realcomed by Mossrs. Thompson, Ross, Jr., Saith and others, and my visit proved very entertaining as well as my receiving an educational advantage.

In the event that the enclosed letter is not information such as you would consider effective, kindly command my attention the second time.

Mr Heat electron don't forthe better

ery truly Jours,

n. Jackson.



#### THE DENVER GAS AND ELECTRIC LIGHT CO.

COMMERCIAL DEPARTMENT

GAS AND ELECTRIC BUILDING

18 Y AND CHAMPA STREETS

DENVER, COLO.

ELMER M. JACKSON CONSULTING ENGINEER BLECTING VEHICLES BATTERIES TRANSPORTATION

PHONE MAIN 4000

Eighth 19 16

Ur. Thomas A. Edison.

Orange, U. J.

I'v dear lir. Edison:

- I have read with considerable concern and regret the various articles appearing in newspapers and periodicals regarding the accident that recently beful the U.S. . E-2.
- An a Storage Battery and ilectric Vehicle Engineer of rithem years' experience, I someth help but feet that all of these malicious statements and attach have eminted from a lead battery source and are removed engine your battery. It is significant in the charge battery would that all the lead storage battery ununfacturers until to attach the lighten through the formula to be a competitor, and their methods of attach have not always been conductive to an intelligent invalidacy of storage batteries.
- which Compare the time, The Denver Can: Electric Miche Company, which Compare it is now any privilege to accept, have in their service almetoon Mainer and Courteen lead batteries. About four years ago, we had, I believe, to middle mad about twenty-two lead batteries of various makes, and the present condition indicates the results of actual practice and the compediture of ever 100,000 by white Comparty. Me are repulsible all of our lead interior with Alexander Compared Michelle and Compared Co
- We have never had in Denver an explosion of any kind on the part of an Edison battery, but we did have an explosion with a lead battory which fractured forty jard in a forty-two cell battery.
- It is necessary that our vehicles operate with great regularity and absolute reliability. We slogan of this large Gergeny and our great syndicate, Henry L. Deberty & Gempany, has always been shartfor, and with that one in vice, we have found that the Malson battory, the to the virtues, smoon which are continuity of service, reliability, and Geolomy of operation, has enabled us to serve our patrons upon our regular presided behealth.

## THE DENVER GAS & ELECTRIC LIGHT CO.

-2-

I have noticed statements mede in print by producers of lead batteries of the why's and wherefore's of the recent explosion, and in the case of the Denve and in the case of the Denve, and the opt into print, and his arguments and organizations were not print, and the arguments and organizations were so ridiculous and inconsistent with the true facts that I did not consider it worth while rectifing them in our local press.

his subordinates, in whom is placed the trust of this nation; will see cit to consider the rearrange of the consider the rearrange of the consider the rearrange of the consideration of the considera

From my risopoint, if it mero meaceany for my company to return to the use of load betterion and chould be Milicon be not exaliable, we would forgot the use a battery propolled vehicle and turn to the actuar or pacifies twint.

Wishing you the unbounded success that you and your productions deserve, I am, with kindest personal regards,

Yours very truly

Electric Vehicle & Storage Battery Engineer

THE DELIVER GAS & ELECTRIC LIGHT COLPANY.

Medson total = 22 am

(then or one asserts forter

You'll right to make all the

Dam getter? They much

Situation as regards. Submanic

Cartiny.

Our inquiries are coming in

stuck of Jast in Submanic

Equipments. Dhave more

houshed an islimate in our

thatting of 2022 Kilowatt

hours of awriting 506 Kinites

pter look as of they will

get thereas of they will

920 K. W. Hr. battery for England.

Then then is an inging in (an joing) on a batting of process of the sea good broat of large size (submarine).

There will take an auful to it potash and when are way for the submarine broaders in divilipoint fact to a an hor on the teach of a lor of business.

Carr we make the

patack some way?

BATTERY, STORAGE Sales

March 13, 1916.

Mr. Edison!

Do you want Vickers to have a copy of the Honnot

contract?

M. R. HUTCHISON

Mr. Colory of by Serving Inger

Edison Batteries.

File with bunch of letters

## SEABOARD AIR LINE RAILWAY COMPANY

Portsmouth, Va., March 21, 1916.

Donk 1, 1910 66

#### CONFIDENTIAL

MR. THOS. A. EDISON,

Orange, N.J.

Dear Sir:

Your confidential letter of February 23rd, as for as we are able to determine from our process, and the second of the second of the second output of the second of the second output out

Our Electrical Engineer advises he has been given to understand that the records of the Pennsylvania Railroad and of the Baltimore & Ohio, show that on those roads there has been/double the number of explosions of lead batteries as compared with Edison, and that in each case the lead battery explosion has resulted in considerable damage, whereas with the Edison battery the only damage related to the control of the been possible to press the Edison battery back lint shape.

It is our opinion that the Edison battery is the safer to operate.

Yours very truly,

Supt. Motive Power.

TELEPHONE BOS ORANGE

LEGAL DEPARTMENT

HOMAS A.EDISON INC. HOMAS A.EDISON.INC. IATES MANUPACTURING CO. DISON STORAGE BATTERY CO. DISON PORTLAND CEMENT CO. EDISON PHONOGRAPH WORKS DELOS HOLDEN
GEHTMAL COURSEL
FRED'H BACHHANN
HENRY LANAHAN
WILLIAM A HARDY

ORANGE, N.J. March 28, 1916

Mr. Thomas A. Edison, Fort Myers. Florida.

FOFU Myers, Piorida.

Dear Mr. Edison:-

After several conferences with Mr. Saville, we have propored a draft of a proposed agreement between yourself, Vickers Limited, and Edison Storage Battery Company, and I enclose herewith for your consideration three copies of the same. The going into effect of that portion of the contract which relates to the manufacture of Edison cells for general purposes in the Entitieh Isles is, of course, contingent upon a satisfactory arrungement being made with Edison accumulators Limited, insemuch as that company is now the owner of the exclusive sales rights, with certain minor exceptions, for the battery in the British Isles. Furthermore, you will note that if that portion of the agreement which relates to the manufacture and sale of the battery by the Vickers Company for all purposes shall become effective, the Edison Storage Bettery Company will be excluded thereafter from the battery business in the British Isles.

It is believed that some provision for a minimum royalty should be inserted in the agreement, and this has been made tentatively \$10,000 a year for twenty years after the manufacture of the battery for general purposes is begun by the Vickers Company. Under the agreement as drawn, after the expiration of said twenty years

the Vickors Company would pay no further royalty. We believe that the agreement should provide for royalty payments extending over a definite term of years rather than to attempt to make it a perpetual arrangement, as we do not think that the rights granted and the covenants made by you and the Battery Company would be a sufficient consideration to support a promise to pay royalties for a period of time without end. During the said twenty years, all of the royalties are payable to you and the Edison Storage Battery Company gets nothing out of it.

It would seem that this agreement is of such a nature that it should be either authorized or approved and ratified by the Board of Directors of Edison Storage Battery Company.

Inasmuch as we have not had an opportunity to consult you as to the details of this arrangement, it may be that you will want certain changes made. Mr. Saville is auxious to have the matter closed up as early as possible, and it is suggested that if the contract is ontirely satisfactory to you, two copies may be signed by you now and we will send them to Mr. Wagner in London with instructions that he deliver one of them to the Vickers Company upon receipt of two copies duly executed by them. While Mr. Wagner will deliver only one signed copy to the Vickers Company, it is proposed to send him two signed copies by different steamers to provide against possible miscerriage in the mails.

Do you wish a copy of this contract submitted to any one in the Sales Department of Edison Storage Battery Company? Mr. Thompson has asked me to let him see a copy of the contract before the deal goes through.

Your British storage battery patents, with their expiration dates, upon which annual taxes have been paid up to date, are as follows:-

> No. 322 of 1903 - expires January 6, 1917 No. 26948 of 1904 - expires Docember 10, 1918 No. 1924 of 1906 - expires January 25, 1920 No. 1928 of 1906 - expires January 25, 1920 No. 401 of 1908 - expires January 7, 1922

> > Yours very truly,

HL-JS

Henry Canada

Encs.

THREY FILE CITY

Llewellyn Park, Sunday, Narch 28, 1916.

Dear Mr. Edison,

I am enclosing an article which appeared in the World today. Every word of it is Cospel truth.

Last night the Chemical Yorks of the Lister Agricultural Chemical Yorks, on the Headows, went up in smoke. The blaze attracted my attention, as from my house I can see for many niles, I ascertained the Location by calling up the "ewark Star. See O'Hagaan and George Poppe on the job and sent the Pord Gearchlight over to offer its use to the "ewark Chief. Also went down in my car."

when the big blaze had died dewn so that all was semidarkness, we drove the oar into the yard of the Porks and the Chief enthusiastically welcomed it. Put it at work at once, and it was a revolution to note how that powerful beam cut through the thick snoke of smouldering chambals.

The Pire Commissioner of Mewark as brought over by the Chief, and was very much impressed with the light. Told us to come around to Fire Meadquarters tomorrow to quote on two complete outfits.

The Supt. of the "orks area wants prices and deliveries on several of the two wheeled outfits for Industrial plant work.

Now as to the business end of this proposition:

I did not deliver that memo you wrote to Thompson, because I knew there would be a discussion and it would result in my withdrawing entirely from the proposition. The reason is this:

phompson scene to be nuite (salous that I will make too good a chowing on my one of the alles. Instead of being broadminded about 1 to the company until the company to the company until thindly the companion will be disadvantageous the company until finally the companion will be disadvantageous It is realized that there is no service you can be company to the company to the company of the company is still burdened with the Salos salaries, Service etc.

taking up a small matter like a search light, when I can apply my energies to so much better advantage personally on large matters. But after I have gotten the thing systematized, it will be one more source of demand for battery, with someone behind it to make it a go. A specialty like this in the males end of a large Company is snowed under by more important business.

As soon as this search-light matter was pushed aggresoivemission to push it/ Thompson sent a salesman post hasto to the
he la Val Fire Apparatus poople, to try to get them interested
it. To date they have put it no extra with hompson he has openly
of but in talkinged to giving me or anyone slee the right to the
une of the buttery or search light purposes. Yet with shoul six
months in which to make sales, I am the only one who has purchased
any searchlight outsite. Furthermore, I have authorized account, for
the various and thit his caliered within the year, as that was the only
for the purpose.

Her York Caty has purchased from me and has installed three complete outfile, with churring boards etc. They 'me mounted on the vater torses, Kepech to send me an order for ten more very soon. Jorney City has gotten the money and is about to order one. Wearst will buy two. Baltimore wants several. So does Buffalo.

Young Kenlon has dumped into the Fire Dept. end of it with me and has already spent considerable money in travelling expenses. Chief Kenlon mays he has answered many letters of inquiry which have been directed to him about the light. If given a free rein and fair chance to go shead, I will eat the job up. But anything that I may do now will only sput the be a val people on and after I have spent the time, money and effort in building up a demand, they will othey ha and reap much reward.

It somes to me it is about time for the Sales Dept. to think up some specialties themselves, or apply themselves to the hundred of more different uses you and I worked out several years ago.

This letter is in no way a criticism of Thompson. My policy is to promote rather than pull down the welfare of every describing man we have. If I hand him this down the mene you gave me, he will at once say he has been thinked with the Be la Val Co. and the been to told me in the Chemical room that night that his content of the dea, with the means and inclination push it I might have it exclusively for a period of two years, with rivilege of expending if I made good. If you think it still, I will go shead and push it for all I am worth, But I do not want to undertake it argressively and spend money on at if I must eplit up with other Companies who may be attracted to it by the headway I have made and will make.

There are 80 many lines of activity on which that Company could get busy, if I only owned or controlled it, I would wager my scalp I could quadruple the business within two years. There are thousands of people who do not know anything about the country and thousands nore who think it is a frost. I had atther sen it than all the rest of your inventions, as far as financial returns are concerned. That plant should be running overtime all the year 'round

For the sake of peace in the family, I suggest that you treat this new letter as confidential, penciling whatever memo you

.

deem proper on a separate piece of paper, to be sent Thompson by Mr. Meadowcroft, with a copy to me, so I will know how to proceed. Valuable time is being lost now, and I will appreciate early action.

Everything is progressing smoothly here.

The N-2 believy test is under way. Gas analysis, chantitative acqualitative will be made temorrow. The members of the Reard are an and to get away to sea and wont waste made time of many frills. I picked that board in its entirety, and had to upset several Naval traditions to get men taken out of active duty and analgned to such a special test.

mhese tests on Edison cells will be followed by tests on their makes, All manufa turers have been asked to come some of their submarine cells to the wary Yard for the tests. It has stirred them up considerably, and they don't lake the outlook. I really think the R-2-buck upwas a blessing in disguise to us.

I called Meadoworoft up this morning to ascertain if the firelast night caught us on acid. The Supt. of the plant told O'Magan we had Is tens of sulphuric acid in the blaze, but Headoworoft says that worth burt us any.

Not here today. Almost 70. Snow melting fast, and robins woodpecers etc. in evidence.

The locture before the Tochnology Club, in N.Y. Friday and the sa a success. They kept me talking about you for three hours. I had II4 lantern slides and several reclay film. When your picture came onto the sersen at the oil you should have heard of respectly and gare you as Boston feath of the you should have heard where you are. I am to repeat the other in Chicago next month for the benefit of some crueity to animals society which the society people are behind. Roxes cell at \$500.00 cach, seate \$25.00 etc, so I understand.

There are some early instruments in those cases that came back from the Paris Exposition which I want to photograph. Have I your permission to open the that cases, photograph the instruments, and return them to the cases?

when I make a pile out of Submarine Battery I am going to put up a fire-proof building somewhere on the grounds of the Lab and install all your early models therein, as a museum. Meanwhile I think I will make a trad: with a Priest to say a mass every week so they wont get burned up.

My respects to Mrs. Edison.

#### MERCHANTS AND MINERS TRANSPORTATION CO.

OFFICE OF THE GENERAL MANAGER.

W. P. CORIA.

BALTIMORE, March 29th, 1916.

FILE No. 5607 .

Mr. Thomas A. Edison. Orange, M. J.

COMPIDENTIAL

My Dear Mr. Edison:-

Referring to your letter of February 23rd, in regard to our experience with the Edison Storage Battery. I regret the delay in replying to your letter, but same has been caused by the slowness in getting reports from our verious Engineers and Electricians, and by my continued absence from the city.

I have now had full reports from all of our people in regard to the use of the Edison Batteries, and these reports fully substantiate my own opinion that the Edison Butteries are very much superior to any lead betteries which we have used. We have them in service on sixteen of our vessels, for the auxiliary wireless and lighting service, and, out of thirty-five electric trucks, in use on our terminals, twenty of them are equipped with Edison Batteries. As soon as the life of the remaining lead batteries is exhausted we will replace them with Edison Batteries.

My experience is that these batteries, while costing more in the The place, are more soonmined in the long run, as they give better the power, are taken care of with greater ease, give us more hours of operation, and reless succeptible of being damaged while charging of operation and at the charging rooms are well ventilated, and the gas give of the been hardly motionable, the men in charge are experiencing may ever results therefrom. On the ships, where quarters are more contracted, some gas has been noticed, but it is consensus of opinion among all of our Engineers that the gas given off is not as much as that given off by the lead batteries, which we formerly used, considering the difference in size of the batteries. They also do not consider that the amount of gas given off, with vestilation provided, is enough to injure the health of anyone working around them.

After using the batteries as we have, our confidence in them is so great that we have decided they are the only batteries to use, and have issued our orders to that effect.

Sincerely.

General Manager

min Mendowersoft oner this alped

Mr. Edison -Since Mayon 1 1916 2 have Sold to The Mary & Krmy of nsa 2415-B2 CE 137 13-4 673 B-4H 11 12 13-6 750 B-6H " 90 A-4 42 a= H 2-5-6 " aggregating \$28,49300

#### EDISON STORAGE BATTERY CO.

MEMORANDU

May 5th, 1916. RAB-9-515

Mr. Edison:

I am sending you herewith Mr. Acker's report and diagrams of May let on test of heating unit for starter battery bor. As soon as Acker gets satisfactory results, we expect to run test in the refrigerator room of the Orange Brewery so as to get low temperature. If you have any suggestions to make, Mr. Acker would be glad to have them, or would it be convenient for you to give Acker personal instructions.

Putonny deale

# EDISON STORAGE BATTERY COMPANY

May 4, 1916.

Mr. Bachman:

Attached sheets show a test made April 17-18-19-20 during which the hermostat operated satisfactorly. Further this thermostat promises, from the tests lawe given it to be able to stand the vibration of a car if it is mounted workloads I will send you a thermostat like it herewith. You will make a string of the standard of the standard of a flat brans spring 0.018 thick. This spring or damper makes difference of 2 or 30% between the opening and closing points when the thermostat is still. If it is larred this difference is less and many be only a fraction of a degree.

In this test the thermostat handled only 1/6 amperel 2 voits. The heater current was made and broken by many on the fittler box relays. The attached diagram changement used. These relays cost bout 6 settler and only on the fitter wound for 12 voits or 6 in one of the standard filler relays which are wound for 12 voits or 6 in one of the standard filler relays which are wound for four dry cells.

be made to handle 3 amperes 12 volte. I have tried various someonest a manet it operate but without success. Undoubtedly the class as successful would do this without a raise, but it leads to the second to the would do this without a raise, but it leads to the second as a plain would do this without a raise, but it leads to the set as much as a plain thermostic and rollsy combinate of the C. E. type which would do the work and of the core with the work of the core was the second to the core with the work of the core was the second to the core was the seco

is mechanically very good, taken but little room, has been end of without injury and tests free from grounds. The steal tube is incended with Alundum  $\Re R$  A.305 cament, which costs log population little with Alundum  $\Re R$  A.305 cament, which costs log population little free resistance wire is  $\Re R$ 0 derene about 12 de a steal tube. I think it will be chooper to use a pall to on another the end to the costs and the costs little at the triangle of the costs of the cost

As to the boxes I have tried several different combinations to see which gives the best heat insulation. The attached tables numbered I. II. III. give the results so far you have boxed by the boxes when 40°P above the room of arriving at the table by the boxes when 40°P above the room temporating the triet by putting a weighed quantity of hot water in came the property of the pro

this basis, the two methods check fairly well. Box  $\frac{2}{10}$ 3 (1° Com hoir solt) showed 30 what by the hot water method and 32 by the electrical method. Box  $\frac{2}{10}$ 4 (1° cotton betting) gave 29 watts by the hot water sets by the electrical solt of the control of the cont

#### EDISON STORAGE BATTERY COMPANY

MEMORANDUM

-2-

According to published tables of heat conductivity ortion will conduct heat only 1/2 as well as fact, or inversely is twice as good an insulation of the second of the

Thinking along this line I had box #55 made just like #5, but with 1/2" wells. It apperently tests out to be just as good as #5, and seems again to indicate that the heat gets out largely by leaks rather than by struight conduction through the wells.

It would seem that a further test of the  $1/2^n$  varies the  $1^n$  wall boxes must show more difference. Possibly the fact that the paint on the  $1/2^n$  box is a glossy black whereas the other is now ruther dull and dirty may have bome effect on it. However, loo not believe a  $1^n$  box will be enough better than the  $1/2^n$ . The  $1/2^n$  makes so much neater, smaller and lighter box that it would take a big saving in watts to justify the  $1^n$ .

In these tests the covers were all screwes on and have 1/8" rubber gaskets. Also all the holes for wires and thermometers were packed with cotton waste. So while the test results seem to point to legis it is difficult to see where they are.

A. J. Acker. As Whiten

- I -

Comparative Test of Two 4 Cell Boxes.

Each 14% x 6-7/16" x 10% ineide ) 1" wall with 16% x 8-7/16" x 12% outside) cow hair felt.

Radiating surfact 6.28 sq.ft. #1 Metal & Metal soldered at top #2 Mapleframe 1" x 1" at top.

Four cans of hot water were enclosed in each and allowed to cool.

|  | #1                            |      |  | #2                    |  |                       |  |
|--|-------------------------------|------|--|-----------------------|--|-----------------------|--|
| Time I   | bs.Water                      | op   |  | Lbs.Water             |  | op                    |  |
| 8:45 A.M.<br>6:00 P.M.<br>Temp.Drop<br>B.T.U. loss<br>B.T.U. / Hr.<br>Watts Averag<br>Average diff<br>Watts at 40°<br>Watts per sq | e<br>erence abo<br># would be | 19.1 |  | 12-10/16<br>"<br>54°₽ | 79.5<br>86.0<br>25.1<br>54°F<br>18.6<br>2.96 | 163.5<br>100.5<br>63. |  |

\_ TT \_

Comparative Test of Two 6 Cell Boxes.

Each 20-7/8" x 6-7/16" x  $10\frac{1}{8}$ " ineide ) 1" wall 22-7/8" x 8-7/16"  $12\frac{1}{8}$ " outside)

Radiating Surface 8.16 sq. feet. #3 Cow Hair Felt & metal to metal soldered, #4 Cotton Batting & maple frame at top.

Five case of hot water were enclosed in each and allowed to

| cool.        | IVO Gune GI  | not more mea      |      |                |       |  |
|--------------|--------------|-------------------|------|----------------|-------|--|
|              | #3           |                   |      | #4             |       |  |
| Time         | Lbs. Water   | O <sub>P</sub>    | _    | Lbs.Water      | 0F    |  |
| 11:50 A.M.   | 18.65        | <del>166.</del> 6 |      | 19.25          | 167.1 |  |
| 6:00 P.M.    |              | 111.4             |      | 11             | 115.0 |  |
| Temp.Drop    | ii .         | 55.2              |      | ii.            | 52.1  |  |
| B.T.U. 1088  | 10 - 30      | j                 |      | 1000           |       |  |
| B.T.U./Hr.   | 167.5        |                   |      | 162            |       |  |
| Watte Averag | e 49         |                   |      | 47 • 2<br>65 0 | 2     |  |
| Average diff | erence above | _room temp. 6     | うりった | 650            |       |  |
| Watts at 400 | F would be   | 30 7 60           |      | 3.5            | :6    |  |
| Watte per eq | . It. at 40  | o≨ 3∙68           |      | 20:2           | ,0    |  |

111 -

## Comparative Test of Three 6 Cell Boxes.

series.

- Each 20-7/8" x 6-7/16" x 10%" ineide ) 1" wall #5 & #4, 22-7/8" x 8-7/16" x 12%" outeide ) 1" wall #5 & #5 21-7/8" x 7-7/16" x 11%" outeide -1/2" wall, #5 & 95 0ow Hair felt and metal & metal coldered. #4 Cotton batting and maple frame at top.

A resistance coil was put in each box and connected in

| Time   | Am   | peres   | Room<br>Temp.                                  | #3 B   | ox Temp<br>#5           | <del>*</del> #4   | #3 Wa   | #5  | #4                                   |
|--|------|---|--|--|-------------------------|---|---|---|--------------------------------------|
| 5:33<br>5:45<br>6:12<br>6:40<br>7:18<br>9:00<br>Watt | P.M. | 2.9<br>2.9<br>2.9<br>2.88<br>2.85<br>2.85<br>2.85<br>2.85<br>2.85 | 80<br>80<br>79<br>77<br>78<br>75.5<br>ove room | 93<br>108<br>113.5<br>117<br>118.5<br>121<br>121.2<br>(aver: | 120.5<br>120.2<br>118.7 | 108<br>114<br>118.5<br>123.8<br>127.5<br>128.5<br>127.2<br>32.3 | 36.6<br>36.4<br>36.3<br>36.3<br>31.25<br>4.35 | 34.3<br>34.1<br>34.1<br>33.7<br>33.3<br>27.5<br>3.3 | 35.5<br>35.4<br>35.3<br>35.1<br>34.8 |
|  |      |   |  |  |                         |   |   |   |                                      |

No.18282

May 12th, 1916.

Mr. Edison:

I quote as follows from a letter received from Mr. Maurice E. Fox, dated April 24th, in reference to the business of Edison Accumulators, Limited, London:

"The affairs of Edison Accumulators, Ltd., have followed their normal course since my last writing. (Jan.16th,1916) Between that date and the present, the following sales have been made:

22 Industrial trucks 2 Half-ton chasses

2 One-ton chasses

3 Thirty-cwt chasses

23 Two-ton 2 Three-ton 5 Four-ton

3 Five-ton

Mr. Mudd:

Mr. Brommor of your department is supposed to send over every day the report of orders received, orders shipped and cells assembled. The report I refer to is the one on a little slip of paper, which has been sent to me regularly for the last two years.

Mr. Edison is very insistent on having these reports every day, and if they fall behind he does not like it, and is beginning to ask who is recponsible for the delay. So far I have managed to stave off trouble, but it is bound to come some day if we do not get the reports regularly every day. Then he will sek the name of the man who is responsible for the delay, as he did recently in a somewhat similar case down in the inonegist Norks. Medicate to say, some discipling was administered.

I am writing this note to you so that we may not have any similar trouble in this case.

W. H. MEADOWCROFT.

EDISON CHEMICAL WORKS

R. A. HACHMAN, VICE-PRESIDENT & GRE'L MICK.

e. II. MEADOVCEOPP, SICHETARY

T. V. SOLLERY, MANAGER

SILVER LAKE, N.J. MAY 18

Polash

Mr. Thomas A. Edison Laboratory Orange, New Jersey

Dear Mr. Edison:

In answer to your request for price and printed matter relative to electrolytic cells, as advertised in Metallurgical and Chemical Engineering magazine for May 1, would say we immediately wrote the Electro Chemical Company, of Dayton, Ohio, and they answered under date of May 15, which letter we enclose herewith.

As you will note, they referred us to the Warner Chemical Company, of New York City, with whom we communicated at once. enclose this letter also, together with circular mentioned therein.

In connection with the price, you will note that same is given approximately in pencil on letter from Warner Chemical Company. We tried to get them to specify some definite figure, but Mr. Warner says it depends entirely upon the number of cells purchased and the particular layout designed. If I remember rightly, it was this concern who gave us a quotation on an electrolytic cell during the past winter.

I expect to be in New York tomorrow and will take the matter up further with them on the basis of converting chloride of notash made from feldspar into caustic potash, in quantities sufficient to supply us with electrolyte.

Yours very truly

EDISON CHEMICAL WORKS

JVM/K

## The Electro Chemical Company

MANUFACTURERS OF

ELECTROLYTIC CELLS

CABLE ADDRESS NALMED DAYTON COOK ABC FIFTH EDITION FOR PRODUCING SODIUM HYPOCHLORITE

DAYTON, OHIO

May 13, 1916.

Raicon Chemical Works, Silver Lake, H. J.

Gentlemon:
 neworing in, Eiller's letter of
 may 10th, regarding electrolytic cells, our
 cells are for the production of Sodium Hypochlorite only. If you are interested in my
 thing of this cort, we will be very gift to quote
 prices, etc. upon receipt of further settific.

is a disphragmood, such as made to produce chlorine ger and cautifus soil. Our onle will not sorve the purpose of memifacturing cuntil potter, unless there was quite a change in the construction.

We suggest that you write the Warner Chemical Co., 52 Vanderbill Avo., Now York City, who manufacture diaphragm cells, and they can perhaps supply your wants.

cells for producing Sodiem Hypochlorite, we can undoubtedly meet your requirements, and would be glid to hear from you further.

Yours very truly,

THE BESCHROCKERION CONTAIN

my Perident

व्यवसा /१

The Warner Chemical Co: 52 Vanderbilt Ave.

New York, May 17, 1916.

Edison Chemical Works, Silver Lake,

N.J.

Attention Mr

Gentlemen:-

Your letter of May 15th regarding Electrolytic Cells is at hand. We are enclosing our circular which gives a very good description of the Cells. We cannot recommend any less than 30 cells for an individual installation and as soon as you have decided as to the size of your plant if you will kindly communicate with us we shall be glad to give you any further information that you may desire.

very truly yours,

Enclosure

FHW-CM

52 Vanderbill CCOE Will you call work Dulphace of Polash Carrela palacel Games the devented unitonial. want to produce locally Keft Cheoride Potosh

Each positive two of an Edison Cell has its Equivalent negative iron Capacity. Hence we can emsider a tube as a tube-pucket unit.

a G-11 CEll made + sold by our Company uses The same size of tube - 3/10"- as a Submarine cell.

a G-11 has 484 tubes (44 per plate, 11 plates)

A G-11 SElls for #2750 list, less 30% to manufacturers, or net #1925

484 tubes Asquirabilit negative capacity Therefore, with accompanying other parts, SEII for 1925

This is #3. 97 CEnts per tube-podert-unitcomplete-cell

Out of this you have to pay for grids, poles, rubber parts, glands, care, tray and equivalent factory over head of Each such part.

also out of this 397 cents you must pay for Selling, advertising, inspection guarantes and

administrative overhead.

In the Victors Contract you get \$29.85 for \$100 # tutes & per 1000 \$ 15.55 " pockets.

With Each 100 tubes there are 80 pooksts.

Therefore Each tube and pocket capacity nmt sells for 3.729 cents.

You have no cost for grids, poles, rubber parts, glands, can, tray + equivalent factory overhead of each such part.

You have no cost for advertising, inspection, colls in service, with equivalent administrative overhead of selling. I have also avoided all reference to quarantee in

the contract

In other words, you get for tubes and pockets of Equivalent number from the Vickers contract, 93.9 percent of what you get for a complete G-11 cell, out of which G-11 price you have to pay for all boles, grids, rubber parts, glands, can, tray, tequivalent factory reprhease of each part and also have to pay cost of selling, advertising, cell in service inspection, quarantee, administrative suprins and still derive a profit.

Speaking in terms of an a-+

a 1/4" tube, active material 41/8" long, hoste cubic content of 2025-66 cutic inch.

" a 7/16" tube, ditto, has .11394 course inches,

Therefore a 1/4" tuke has 1.777 times The cube entents of active material That a 3/16" tuk has.

am G-4 has 120-1/4" tutes. 120 × 1.777 = 213, or practically The number of tubes Then are in a G-5.

a G-5 sells for \$13, = , has 30%, not 9.5

213 tube-pocked units 9 92 = 4.43 Crists

from this 4.43 cents Jon must pay for all grids, polss, rubber parts, glands, can, tray, + Equivalent factory overhead of each part. also for selling, advertising, cell in Service inspecting quarantes, administrative expense, and Still have a profit.

Jou get from Vickers tules pockets about 84% of what you get for a complete 9-4 equivalent in 3/10" tule cell. The 6-5.

a study of thisse figures will show you think is Either a horrible loss in making, setting, service and quamitating. A and G criss or stuck the prices we are asking Vickers show a vew large. Fro fit.

.. The Company could not keep yoing on A and 6 cells if Vicker prices ... show only a small profit.

It was with a realisation of the high price named on Vickers takes and pockets, with consignent large profit that I felt the commission I suggested was reasonable, in View of the fact that I have engineered this British deal from the initial interest aroused Syears ago, interesting Vickers through Poritish Daval Officers between the and finally getting them to waive active material manufacture, and crossider the Submarine separately through my friend Sheridan, whom I visited an washington especially for this purpose.

I am inclined to televe that 7 % of the net profit you will crusider too low after you have gone into this, but I trave it to most.

a- (i) 5 costs complete with facting oracle of the 60% is twee potes or \$3.40 June are 200 tubes, and regarden commenting a costory \$3.40 por.

We sell for 3.729 \$ 2.48\$

# WESTERN UNION ANGLO-AMERICAN DIRECT UNITED STATES CABLEGRAM

Received at 16 BROAD STREET, NEW YORK

N BR 457 RH

20593

LONDON 34

CLT ZYMOTIC FOR MR EDISON NEWYORK.

REQUEST YOU NOT MAKE ANY ARRANGEMENT FOR MANUFACTURING ENGLAND BEFORE I SEE FOR YOUR OWN INTEREST STOP APPLYING FOR PASSPORT AND WILL CABLE WHEN SALLING.

MO NNO T.

The state of the s

Mr. Edicon & Math Managraph Poreign Dept & Thom a Edison Inc 48 best 18way The matter of Changing the form of governmentes on

army Mary Batteries to conform to our Standard truck hatten gudantes has anson. If such change is made, it will materially

Mer the status of the battery because:

(a) - The quaranter as it now stands is an indication of our confidence in the battery.

(b) - The Trans or first are fraking a \$10,000,000 co battle slip on The reliability of the gene firing or turned lighting brottery and say the column on the only battery made in which the manufactures have a millionth of the confedence there was the Trans or their.

(c) We have about \$ 600.000 another of batteries in Service in the Group (Mary and our total replacements of standard batteries has mer exceeded there or four calls during the pour fur years.

(d) - There is no service exposure in connection with a Government Battery, where a truck battery to is a constant source of when to the Company for the service of majorities to

(E) Growniaw Cells are not subjected to the hard work to which truck fathers are subjected and through last for grang. They are also under expert attention (f) - When the Cu. Sello a buttery to the army or Mary the lotal selling experior is the 20% of my driving or where we sell to a tribolo Manufacture, to ar discourse of from 20% to 30% to 40%, the Sales experies of the Battery Cu has to still a paid our of the uct frice.

Therefore, with all the diese jacto before you, and the statement of Sendenant Lambers that companies the complement sugardance in us, thereby swive the order of the 200 health lighting balteres to no was largely due thrusto, I mospecificity request that the great and it allowed to stand on we are written in the stand or a written in the stand book.

July 19/16.

MiBacumar approves of this

#### PRSune PENNSYLMANIA BUILDING PHILADEBRUHA, PA.

to in fine to make a cost a Million dellar Februar or der = My Personal. an expense of cents are froming Chemical plants are froming an Experimentaling on a new themy

Mr. Thomas A. Edison, Orange, N. J.

Dear Mr. Edison:

which might be for free line

There has been much talk over here recently among bankers and others about ESTABLISHED INDUSTRIALS. The times, money conditions, and temper of the investing public seem right for floatations of this class of enterprise on a large well het you know when seed. scale.

It has occurred to me, - Why not divorce the storage batteries from Edison, Inc. and commission me to negotiate a deal to put one over that is really worth while. If the subject is fit to talk about advise me and I will run over to see you. Even if the suggestion is valueless and there is "nothing doing" I would be glad to hear from you. Have you anything new coming out soon that needs a helper about my size?

With kindest personal regards, I am

PBS:MGT

MEMBER NEW YORK PRESS CLUB

CABLE ADDRESS
"THEOPEGA: NEW YORK
1 PHONE:
1784 MD, MQC.
NEW YORK CITY

## C. W. McMORRAN

SPECIAL WRITER
OF MADISON AVENUE, AT 2748 St.

1007

NEW YORK CITY

Thomas A. Edison, Espi,

Dear Fr Edison;

Say-Battery Lave 24/10

Now in the halls of the U.S. Office

buildings in Washington, D.C., there seems to be a mile about each ricer and two and from the Senate office building and the Capital building these, as per cut, could be used a hundred of of them, IF IT MAD AT EDISON STORAGE MATTERY, which would do away with the noise which would shut off the kind shown in the cuts. I feel this would be a fine untertainment to have these "SKATE-MORILES", with strange batteries, and submit this suggestion to you, asking if any thing is done with the suggestion you set asside some pertien of the profits, or ammount of sales to

your N.Y. newspaper friend,

You remember I and the honer of stunding with you, on the Court Of Pleanty, at the Exposition, San Francisco, when 25000 were waiving greetings to yo, and we had a little chat.

THE WORLD: WEDNESDAY, AUGUST 23, 1916.

# SKATE-MOBILE TANDEM WHITE SLAVE, ILL, GROSS FIRE LAXITY SKIDS ON BROADWAY

Stand-Up Auto That Rushes at Any Pace Is Kids' Device, Motor Driven.

Just what it is it is hard to say, because when it was observed yesterday the riders were going so fast they couldn't explain. But it is the first adult skate-mobile to be seen on Broadway. It is the glorification of the "skate-mubile" that the kids use to const downhill-two skate-wheels attached to a bortrontal hourd slung close to the ground, with a vertical

beard for a steering post.

This machine, which was pl graphed at Forty-seventh Street and Broadway, has two wheels about sixteen inches in diameter, shod with cushion tires. The forward wheel is surmounted by a tiny motor which does the driving.

a platform about eighteen inches wide and perhaps three feet long. The thing drives like a bleycle, but there is no scat to it. The rider-or riders, for in the photograph two are shown-have to stand up. The one dectric headlight and a warning bell. A World reporter saw the machine, making about twenty-five miles an

did not make nearly so much noise as

n motorcycle.

Between the wheels, underslung, is hour, at Broadway and One Hundred and Forty-fifth Street, apparently headed for Van Cortlandt Park. It MOVES GRAND JURY, CHARGED TO IF'"

TO INDICT QUICKLY IN BL AP'

David Parish, Alias Siberia, Wil

ness in Another Case. " to Tombs on Girl'r

of Rare Br

LEFT TO S JUST P

Earr

~ . . . . .

NEWEST SPEED CO

| John F. Monnot. Tour Many Telephone Rogent 5490 10 tinens  |  |
|--|--|
| John H. Mennet. Shomes a Edizon. Tolgram dibuth !! (Som Jonalen  |  |
| Munujug Greeter. Anomao (1. Edison, Teleprone dibutt. 11 jõha jlembri.<br>(1885)<br>Edison Accumulators L., tel  |  |
| Ecclusive Licensees for the British Islos of the Edison Storage Battery.   |  |
| werks-14,49pa Place, Edisen Pailding.<br>Chetsea,88% 25°3 Quike Street.  |  |
| JFM/AMP London, 14th September, 1966.  |  |
| Edison Accumulators Thomas A. Edison, Esq., son Edison Laboratory, orange Company Comp |  |
| Self Starting & Contion Dear Mr. Edison,   |  |
| HOUSE LICATING I returned safely after a slow trip on the "New Amsterdam", and since my return I have been busy with matters that have been left for my attention.   |  |
| YAGHT LIGHTING - 1 to down to light chicago and of the   |  |
| Submanus Vesseis.ere contract signed and sealed at our last Board Meeting, and I am keeping the other copy, which I will return by next mail in case this first letter is lost, as it possibly may be.   |  |
| ELECTRIC VEHICLES I thank you for your kindness during my short  PLEASURE CARS Stay in Orange, and I can assure you that the results I expect to Obtain will be entirely satisfactory to you.  |  |
| COMMERCIAL VANS The only trouble now is that the battery works have not yet delivered a number of orders placed some time ago, and we are getting short of cells to fill our orders.   |  |

I am sorry to say that I have not yet been able diamonds that you require, and it is very difficult to change anything in the rules laid down. It appears that a large number of industrial diamonds that going from the United States to Germany, and the special component on this matter sorte erg anything in the rules laid down. It appears that appointed on this matter to sorte erg any law in the special will advise Mr. Emery by coales as a limber of first lanswer, but it may not be favourable.

Yours sincerely,

With best regards,

TRAMWAY CARS LOCOMOTIVES LAUNCHES ETC. ETC.



Thile the writer was visiting your plant last efficient with the Harvard Engineering Society, he had the pleasure proceeding your "tube seeing" machines thich make the tubes for your storage battery. So that you will understand just what we man you will understand just what we man you will understand the process of the sound of these tubes.

ation of Hr. Hutchison:

Centlemen:-

To are very much interested in securing a similary that the machine, but to be used for an entirely different purpose that your own. To would want the machine for making pencil tipe, (the sphill) ferrules which go on the end of a pencil to hold the rubberght that

We would appreciate it greatly if you will tell number what conditions you will give us the drawings for this machine inform us where it could be built.

( Two)

Edison Storage Battery Co.,

Sept. 21st, 1916.

Thanking you for the courtesy of a reply,

Yours very truly,

- Colwin M. Beroffenner

Wattery- Storage

October 9, 1916.

Mr. Edison:

I am in receipt of a cablegram from Mr. Monnot dated London, Reptenderx9th October 7th, as follows:

"Cable received. Have consulted my patent attorneys, who state positively you can send batteries formed without injuring patent situation on account our having worked process continuously before war. Forming here would entail further delay and as delivery is vital places send battery formed. Had recontly two more interviews with clients and have arranged for other orders provided first order is delivered promptly as det one provided first order is delivered promptly as det on the service of the control of the c

Monnot."

Copies to Messrs. Bachman and Thompson

BATTERY, STORAGE -

Oct. 20, 1916.

Mr. Edison:

In reply to this letter, I sent the following cablegram, deferred rate, to Monnot:

EDIBATTER LONDON -

LETTER RECEIVED. BOSS DECIDED TAKE NO

FURTHER ACTION UNTIL CLIENTS ORDER SUFFICIENT GOODS

MASSACON.

Respectfully, H. R. HUTCHISON.

\.

The patents all well soon Experience
Except tithing patent This Mount can
defend wettent any neglts for suff
defend wettent any neglts for suff
So I do not think I will governamy
right of suffice S

COPY

EDISON ACCUMULATORS ETD.

2 and 3 Duke St.,

London, S. W., 27th September, 1916.

Dr. H. A. Hutchison, Chief Engineer, Edison Laboratory, Orange, N. J.

My dear Hutchison:

I received your letter of the seventh instant, enclosing copies of letters you have addressed to Sir Trevor Dawson and to the Naval attache in New York. I do not suppose it is any use for me to make any comments, as what you have found out is exactly what I told you and as what you may found out is exactly what I are you am fur. Edison I expected would happen. But I did not think it had already gone so far. I am having an appointment with the admiralty to clear up this matter, but the worst is that I have learnt this morning from a reliable source that Vickors are going on making preparations for manufacturing and have made a thorough investigation into the patent situation here. They have stated that one patent was expiring soon and that they were soing to apply for the right to use the existing patent on the ground that we do not manufacture in this country. You will remember that they have already stated that to you through their representative. I was also told that they had been actoring me for over twelve months. They must have spice everywhere. The worst of it is that you made such case of Saville. You will remember also that I told you that I would not have anything to do with Vickers or their people, and this makes my conviction still stronger, and I suppose that all their staff has been trained to their way of doing business. I could say much more on this subject, but it would be of no use at the present time, but I wish you would impress on Mr. Edison the absolute necessity under the present circumstances of arranging promptly to give me or Edison Edison Accumulators Ltd. the exclusive license to manufacture cells under his different patents in this country. From your cablegram I know that you are now convinced of this and as Vickers may make an application at any time to the Commissioner of Patents for the use of the Pritish battery patents, I ought to have this contract Taxxxxxx from Mr. Edison so that we can defend the case. At the same time I think it would be well for Mr. Edison to give me power of attorney in this matter, if he has no legal representative here, to take up the matter with the Commissioner when called upon, as if there is no defense Vickers application may be granted with-

-2-

out a hearing. If he has a logal representative here, please let me know so that I can get into communication with him when the time comes. We could always defend the lithing putent, as we have been down the work, incorporating it in the wells and forming the batteries.

I would suggest that you take up this matter with Mr. Bais on immediately on receipt of this letter, and if he agrees, as I expect, to give the manufacturing licens he may the papers should be drawn up immediately and signed by him, and sent to me for expectation.

I am sending you this letter through my brother in Paris, so that he may read it before it is posted.

With regards to all,

Yours sincerely,

(signed) J. F. HONIOT.

## THE EDICON STORAGE BATTERY.

The electric buttery is a device by which potential energy is made avail-

Enteries are of two general classes, - grimary and secondary. The latter are usually known as storage batteries in this country, and as accumilators abroad.

Primary batteries commune their elements in the production of electricity, or, to be more securate, change their chemical condition in much manner as not to be readily restored to an active state - the action is irreversible.

Storage batteries change their chemical form in such namer as to be readily restored to active comittion by the passage of an electric current through them in the reverse direction - the action is said to be reversible.

Storage batteries in turn are subdivided into two general classes. The older of these is immore the lead-old type. It is represented by the products of practically all the competitors of the Adlson Storage Entery Conjany. The Adlson bettery is the sole representative, with one or two minor exceptions, of the alkaline type of storage battery.

In basic principle the two types are the same, but materially they are en-

| tirely different. Lead-Acid                     | Alkaline<br>Caustic Pota | ah an   |
|---|--------------------------|---------|
| Electrolyte Solution Sulphuric Acid             | Onustic Sola             |         |
| Positive Active Material Peroxide of Lead Nicke | 1 Hydrate                |         |
| Hegative " "Sponge Lead                         | Iron Oxido               |         |
| Supporting material of the Plates Lead          | Nickel-plate             | d Steel |
| Goll Containsr of Jar                           | " "                      | μ       |
| Plate Separators Thin woodensheets, Hard        | l rubber strip           | s.      |

A study of this comportion promise the reasons for some of the edvantages of the Misson bettery over the older type. The use of steel instead of
load in the plates and instead of rubber or glass for the centainer, makes obvious
the lighter weight and greater ruggedness of the Misson bettery. In addition to
those edvantages, the chemical combination in the Misson bettery is such that it
is more completely reversible than is that of the lead bettery, hence the lattery
year guarantee in communing and much longer lived. This feature makes possible a fouryear guarantee in communical truck service whereas the longest had battery guarantee
ts for two years.

The contive untertale of the coll ore contained within perforated steel receptacles which are nounted upon the steel grids to form plates. In the positive plates these containers are cylindrical while in the negatives they are rectangular and flat. Whis construction prevents the active untertain from commanding themselves from the plates, time becoming inactive and precipitating themselves to the bottom to become troublesome as sediment. It is this feature that from the Edition battery of the necessity for internal cleaning such as is necessary with lead batteries, whose active untertain are applied to the surfaces of the plates in the form of pasts. The pasted untertains of the 1 and battery are always precipitated to some extent and may be through down with great rapidity unless more or less expert care is exerted in their operation. Also special care is necessary to proven the sulphuric soid acting upon the plates is such manner as to seriously injure them—when this occurs the calls are said to be "diseased" with a maley known as "Sulphation", where is nothing maleymus to "sulphatic" to which the Edison bettery is subject.

Preedom from sedimentation and sulphation reduce an interance expense by the reduction in repair costs and in the cost of attendance.

To summarize, the principal advantages of the Edison battery are:

Long Life

Ruggedness

Prociom from Disease

Lightness in Weight

Simplicity of operation requiring minimum attention.

Freedom from internal cleaning

Ability to stand in charged or discharged condition without injury.

Cortain disadvantages are alleged by competitors:

 High price, - being shout twice that of the lead battery.

The initial high cost of an Edison Enterry is more than offcot by its lear life and low maintenance expense, making the average yearly cost of operation much lower than with the lead battery.

> High internal resistance, equaing a lessoning of gower, under heavy loads, manifested for example in low speed on hills.

It is true that the internal resistance of the BM son battery is higher than that of the lead bottery but it is not true that it seriously effects operation. This depends upon the design of the agraratus with which it is used. The characteristics of the bottery must be given consideration in such design.

5. Inefficiency, resulting in high cost of

power.

The efficiency of the Edison, over an extended price, is equal to that of the lead bettery. In the beginning it is lower, but its officiency is retained while that of the lead bettery gradually falls off. But caids from this, the difference in officiency is not important. Of the entire cost of operating a truck (including that

depreciation, interest, etc.), the cost of current does not exceed 10 percent. Therefore a difference of even 20 percent in officiency would mim a difference of only 2 percent in the operation of the vehicle, which is insignificant because it is many times offset by savings in other respects.

#### 4. Effect of cold.

The effect of cold has been entirely multified by suitable bettery compartment design. So substantiate this, it is only measury to mention the fact that completely satisfactory corvice has been remdered throughout winter seasons in such localities as Winnipes, Canada, where temperatures as low as 50 and 40 degress below zero parsist for weeks at a time.

There are various types of Edison batteries, designated by letters and masorils, as A-4,A-9,B-6,F-9,G-7, etc. The letter indicates the kind of plate in the coll and the masoral indicates the number of estitive plates, the number of segutives being always one more.

the and "B" plates are thicker than "G" and "J" plates, but otherwise all are slike in construction. "B" and "J" plates are half the size of "A" and "G" plates respectively, that is, "B" and "J" type cells are approximately half the holds of "A" and "G" type cells.

There are also "M" type cells for Minors' Lamps and Motorcycle Lighting and "B" type cells for Submarines.

"A" and "d" type colls are used for vehicles and for other heavy services, the "9" type being offered in special cases where high discharge rutes are required.

"B" and "J" type cells are used for lighter services.

The principal uses of the Edison battery are as follows:-

QCALABOLIA MUDIS. This town includes all street vehicles designed to carry merchandise. In this field the Eddson Entroy holds from 20% to 40% of all the business in the United States.

HINDOWALLA ANDREA. This term includes merchanise trucks used indeers or about purds, doesn, etc. About 80% of such trucks in this country are equipped with addison batteries.

<u>nonomovives</u>. Storage battery healings in mines and elsewhere is reguly oming into above with operators who are recognizing the advantages of displacing the old systems of animal and steam locesotive haulage. The Edison battery has obvious day between the state of this business.

#### MINE LAMPS.

197 24 19th

The Enttery Contany standard trops a complete mine lamp including battery, battery case, the cord extending from bettery case hung at the maint to the light on the cag, and the cap lamp or head-piece. It was the first lamp approved by the Burean of Mines under recent rules, more stringent than in the past, and has not with great favor in the field. Shoutands of then are now in use in pouncy/venis and West Yighida cost since

PALIFOLD SERVICE. Over one hundred of the reilrods of the United States and Canada use the Edicon Enterty for runin lighting block rigarling, or switch operation. About thirty (0) roads, (among them such important lines as the Fennsylvania R.H., Onteral R.H. of New Jersey, Estimore & Chio, and Illinois Central), have signed agreements for the exclusive use or Edison Exteriors in one or more of the above services. In the ordinary equipment of a day seach an Edison Extery mayes one ton in weight - 860 lbs. against 2880 lbs. and each tray in of such weight as to be readily handled by one man. In signaling and witch services a great saving in tower construction capanse is effected by the use of Edison Exterior because of the Change of Russy injurious to surrounding apparatus. With the lead battory a separate testery house or room is usually built.

ROUSE LIGHTHM. In my localities public electric service is not available and a very considerable business has been developed in furnishing country hones with electric light plants consisting of gas engine, electric generator and storage bettery. The battery stabilities the voltage while the generator is running and supplies the noncessary current when the angine and generator are not in operation. Because of its simplicity of operation the Edon Enterry is particularly desirable in this service where expert attendance is not available.

There are numberous other applications, such as ignition and lighting of automobiles, motorcycles, and motor boots; trench lighting, cun firing and sight lighting; emergency wiscless and lighting on stock vessels; the propulsion of electric laumchos; for time recording and fire alarm systems, and for many other uses. The Engineering Department is always glad to give attention to special applications with a view to determining whether or not a battery is sessible or desirable.

December 4, 1916

Mr. R. A. Bachmon;

Herowith I hand you a letter from Mitsui & Co., Ltd., in regard to the sample board, which Mr. Edison is presenting to the Myoto Importal University.

You will note that when the sample bound is ready it is to be formered to Mitcui & Co., Ltd., Engineering lepartment, 25 Endison Ave., New York City, N.Y.

Will you please five instructions to have transportation charges prepaid.

W.H.MELDOWCROFT.

A/1449.

Mr. Hildelison When, Edw. Marshall were assess inor there he took auch him oul and said we would confer with the head of British aud Data much a view trivaid intensiting I received a cable from him last night as follows . Taris, DEC 16 4/10. auxious for should come trance immediately, begand this worky important and inspect. Peoply instantly Crillin Hotel Paris! Very gird reception assured. It is practically impossible for me to clave here now, tox is in Paris and is indposted in Submarine Battery, Dan de for cabling marshall on follows 1 " Strgrut matters prevent departyre now. Our Eventer/Mairice tox France freshitly throughly

Dec. 18, 1916.

Mr. Edison:

I received the following cablegram, dated yesterday, from Monnot: CABLE NAME ANALINE DIE REFERRED TO BY MR. EDISON DURING CONVERSATION. URGENT.

MONNOT.

He evidently refers to a conversation he had with you when he was in Orange. If you can remember it, and will advise me, I will communicate with Monnot. HUTCH.

mode SAFETY CHAN

December 23, 1916,

Ur. Edison:

About eight months ago, we sent over to the Havy Yard, Brooklyn, a few of the Type H-8, mining lamp cells, to enable the Havy Department to determine just how long a lamp, depending upon the Mison Storre Batteries, could be left standing man and the second in time of morgancy. To be of practical trility.

The cells we sent over were made up from the tubes taken from the cells we made up for Ford, and as you know we have had trouble with tubes made up from these Ford cells which were left standing in a dry, unformed condition for quite a long time.

we sent the lawy Nurd, the cells were made on those cells three or four times to be sure that they were fully charged. They were of course discharged inter each charged. They were of course discharged inter each charged on the last overcharge, they were put on the shelf, and at this end of one month one put of cells was then down and put into the mining lamp case, the time it would burn the lamp a cortain minimum candleacowr noted. At the end of two months from date of charge, a second prize of cells was taken down and so on every month.

The results of thetest were very disampointing. From previous experience with Misson Cells, the personnel of the Havy Yard expected to be through with the test and to O. K. Raison Batteries for use in lastorms of this type. But the result of the testabove referred to rendered this impossible.

mother set of tests, and for the 'unpose would like to curry on the set of tests, and for that 'unpose would like to have two dozen cells, or twelve pairs of cells for mining lamp. He wants to be sure that the cells are of the best cossible construction, so that they will show up well on the test.

memorandum and I therefore suggest that you C. K. this memorandum and I will pass it along to the Storace Battery Company. I feel sure that they will take extra presentions to have the batteries in first class condition before sending them.

The shipment is to be made on consignment to

in the second

Machinery Division, New York Havy Yard, Brooklyn, New York.

M. R. HUTCHISON.

Mr Edison The argentine Navy rounts one of own Mo. 2 Surette If for will OK This Dwill Ofarmsh Battang Co-Shipping Instructions SEC 30/16

# Edison General File Series 1916. Battery, Storage - Edison Storage Battery Company (E-16-09)

This folder contains correspondence and other documents relating to the bitiess of the Edison Storage Battery Co. Among the documents for 1916 are items concerning investor relations, product guarantees, and royalties accounting. The correspondents include stockholder Arthur I. Clymer and Stephen B., Mambert, vice president and financial executive of Thomas A. Edison, Inc.

Less than 10 percent of the documents have been selected. The material not selected consists primarily of routine interoffice communications and other items pertaining to sales and marketing.

SDISON STORAGE BATTERY COMPANY BATTERY, STORAGE.

100

Hutch

nmerry 10th, 1916. HGT-2-117

Mr. Edison and file:~ 🔾

I am attaching her to copy of blanket guarantee vhich Mr. Hutchison his asked that we print two hundred copies of for his use in selling wireless or gun firing batteries.

In the first rice t has always teen my understanding that these guarantees that only issued over your signature and in being contained which and is too broad to put out the wholesel cots as it is Mr. Butchison's evident intintion to do. Fractically all of the ignition and lightly sets which we sell are seld without guarantee and I do not bee why it is nocessary to issue these from you be put this form of guarantee out or to issue, for that matter, any form of guarantee for Lir. Hutchison, I do not feel that I have any authority whethere in the premises.

Wont you kindly advise me how you wish me to handle this matter?

H. THOM SON.

Enclosure -1

# [ATTACHMENT/ENCLOSURE]

THOMAS A. EDISON

. H. MEADOWCROFT

# Edison Storage Battery Co.

Orange, N.J., U.S.A. 15 GUARANTEE

IN REPLYING ADDRESS THE COMPANY AND REFER TO

THE EDISON STORAGE PATTERY COMPANY hereby guarantees as ins bullows all Army and Navy Special Edison Storage Cells, indicated by the letters "ANS" stamped on the filler cap of each, and purchased during the year 1915.

If, at any time within a period of five years from date of shipment by us, irrespective of the number of cycles of charge and discharge they will have had, any of said cells are found to be incapable of developing rated capacity after a charge of twelve hours at normal rate, we will, at our discretion, either repair said cells to restore rated capacity, or replace with other cells of proper capacity, free of charge, f. c. b. our Works, Orange, New Jersey.

At any time during or at the end of the sixth year, we will renew all positive plates to restore the cells to full rated capacity, for one-half the original price of said cells:

allest

#### PROVIDED, however:

- (a) That all said cells have been purchased by the government directly from our Main Office, Orange, New Jersey, and not through any dealer.
- That all cells are installed in a manner approved (b) by us.
- That all said cells are cared for and operated in
- ness was usual costs are cared for and operated in accordance with our atundard printed instructions. Let say the consistency for many in accessively factors with the commission of officer directly in charge will give his personal attention to the mixing of the dry chemicals and distilled was a whole was according to the dry chemicals and distilled was a whole was according to the dry chemicals and distilled water when necessary to renew the solution in any of said cells, and as to keeping the cells dry and clean externally.

EDISON STORAGE BATTERY COMPANY.

THE INVESTORS' AGENCY, INC M. L. SCUDDER, PASSIBLET MARVYN SCUDDER, Vice Passib Phillip J. SCUDDER, Tasaburen COMPANY.IST WIGE 6'S DUE 1916. Mes? the request of the appraisers, Supon the value of the above security by the Estate of Abram Alexander Smith, Boombon 13th, 1915. It is necessary that I ascertain the yalue of the above security as of the date of death, and would accordingly request that you inform me as to any sales or quotations of the above security that may have occurred at any time near the date of death. The above corporation, we know, is a rather close corporation, and in order to arrive at a fair appraisal of the security held by this Estate it will be necessary for you to furnish us with a statement of assets and liabilities and income account for the years of 1913, 1914 and 1915. I trust that you will see your way clear to submit this information as soon as possible and

remain,



Pobruary 14th, 1916.

Lybrand, Ross Brothers & Montgomory, \$55 Liborty Street, New York City.

Attention: Mr. William M. Lybrand.

Dear Sir:

and in accordance with our co-operative understanding expressed in your letter of Howester 11th, 1915 to Er. Edison, it cives no pleasure to advise that the Francis Brunch of the Eddes Storney Buttery Corpany will be ready to receive your mon for the Norther 50th and to of said Company's books on Manday, Fobranay 14, 1916.

time bottoom november 50th and no open the clapsed the bottoom november 50th and the acts on which we will be ready for the auch t, but fully be fleve that the care with which we have coursed out your recorrendation to the, Bilacon, as stated in your letter of Howesher 11, 1916, will, in a resource, justify the longth of time in this particular instance; and in the Nature as we become better signated to your regular quarterly additwe feel that this time can be very materially reduced, both to our own satisfaction as well as yours.

Hoping that this will work out to be mutually satisfactory to everyone concerned, I remain.

Yours very truly,

PINANCIAL EXECUTIVE.

To and not very well make the kechenger we are Earning in balling from 250 to 275000 we are Earning in balling from 250 to 275000 we are the common in balling from 250 to 275000 we are the common who make, the common was the great of the common who were the common who are the common who are the common who were the common when the common who were the common where the common was the common where the common was the common who was the common which we want to be the common who was the common who was the common where the common was the common was the common where the common was the common

in not comforting or reasevering, and I be groun ont to think me precomptive in making a econd request; it is a favor which you are in position to grant me if your kindly spirit move you to do so. In view of the price I paid you pre share (%100) for whe battery stock and the five years' use of the fund, will you be cood enough to give me a bundred shares of thomas A. oalson, inc., in exchange for the hundred shares of battery stock? The samy friendly letter which I have received from you, Mr. taison, have made ane feel that you take an interest in me and I shall feel grateful to you beyond excression. Amxiously smalling your really, I am

Miller Rour devoted friend,

We will mill for Adelymer

Correction as a with for Adelymer

Correction as this formation to the formation to th

for your inventions in universal use.)

Your favor of 24th ult. was duly received.

wherein you stated that you could not very well make the exchange I suddested. I gave you the situation with reference to my financial condition and will ask you if you will not kindly receive back the 100 Edison storage battery shares which you let me have. Taking them at par. -- the price I gaid you for them. -- you will have had the advantage of five years and four months' use of the money or the contvalent of a 67 annual dividend for that length of time. Your reason for beying preferred not to make the

exchange of babbery shares for Thos. A. Edison Inc. must have been that the latter has a larger surplus -- I do not kow whether the latter company is paying dividends. I cannot blass you for not wishing to make this exchange of shares if it would be to your disadvantage. But I do most earnestly beg that you will not refuse my present request, in view of the fact that you have already owned these shares and they undoubtedly are worth more non than they were when you sold them to me.

Anxiously awaiting your reply, I am

J.J. Clym

Box 351

THE INVESTORS' AGENCY, INC. LIBRARY DEPARTMENT ESTABLISHED 1905 EST TEL 8100 HANGVER APPHAIRAL OF BECURITIES PROFESSIONAL BERVICES TO INVESTORS ay that I have never heroud M. L. BUJDDER, PALLISENT MARVYN BOUDDER, VICE PALLICENT March 4th, 1916. BATTERY COMPANY, STOCK orage Battery Company,
Orange, N. J.
as the cohole of the Chines are neven Dear Sir:as expert appraiser of unlisted pecurities for the Transfer Tax Appraisages of the Appraisage of the appraisages. Upon the request of the appraisages, I have to report upon the value of the above security which is held by the Estate of Abram Alexander Smith, deceased December 13th, 1915. It is necessary that I ascertain the value of the above security as of the date of death, and I would accordingly request that you inform me as to any sales or quotations of the above security that may have occurred at any time near the date of death. The above corporation, we know, is a rather-close corporation, and in order to arrive at a fair appraisal of the security held by this Estate it will be necessary 7 his Education for you to furnish us with a statement of assets and liabilities and income account for the years of 1913, 1914 and 1915. I trust that you will see your way clear

to submit this information as soon as possible and remain,

Ask Haldon of cos are competers to do the

on materia your request for materials as to accept, dre you and accept, dre you had any obtain which inglesses and ingrantism? If not use do not can to be do not can to be and you with the taponales of the spread of a with the taponales of the spread of the spread of the taponales of the spread of the spread

WALTER JANVIER SIROLIN CO. 366 & 367 CANAL STREET PEARS' SOAP JUNIONE ET PARTE SINCE S cary of First Aries Street Burges, NEW YORK TELEPHONE 1028 SPHING ros Ton Boston Thass. July 21-16 Enison Storage Battery Go Theit Orange My. of the 13" and 18 the way to the four you to my letter, of the 13" and 18 the way to the face water of the said of the will find to the face water of the will be the grant to the to far the face water of the will be 136 registered in the name of the James about to the land to the face water for the said to the land t Principal dur July 1 2176. Principal and Interest payables at That Orange Mr.J. I have town pleased the found with to this facint by their Dry correspondent, Other had To The bound is a cirtificate from the clube of busequeter bon. ? of the bounty of New York of my appointment as executor of the will of thatter Jamier

WALTER JANVIER

365 A 367 CANAL STREET NEW YORK 232 A 334 RANGOLM ST CHICAGO ILL 186 PURCHASE ST BOSTOM MASS SOLE ADENT FOR

PEARS' SOAP STONE'S LIME JUICE NATURALIS SIROLIN CO.

365 & 367 CANAL STREET NEW YORK

TELEPHONE 1028 SPRING
CASLE AUGMENT
"PEARS" NEW YORK

I have also endo read the band on the book.

They brother Halter Jangier was born Jan. 27.1849

Janvier and Sarah Habrison Januare

Janvier field of jung or taking unto the took a

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a middle intia L Vig. R. The last few years

of his life the drophed the Rand vid thusiness

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January Million St. Januare.

Jour they Million St. January.

Hope to do something wither

My dear Mr. Edison : 8xx I am delighted to read, in your latest kind letter,

that the Edison storage battery business is doing splendidly, and am not at all surprised, as I have had the very highest expectations for its ultimate success, ever since the day I read the first extended and all-absorbing description of it. but its lower to get it alance

I have just read, in a city paper, the following :

On some Prussian state railway lines, storage battery cars are being operated at less expense than either

It occurred to me that you might care to obtain definite information as to the characteristics of these cars, either through correspondence with some scientific or railroad friend in Frussia, or through some railroading friend here who can obtain the information through a qualified Prussian correspondent. I have thought that they may be using some advanced type of gearing or other mechanism, which, plus the Edison battery, would enable you to put out an equally desirable etorage battery car at home.

steam or gasoline-electric cars.

Yours very truly, a Melymis

October 30,1916.

Er. A. I. Clymer,

Van Vart, Ohio.

Dear Mr. Clymer:

Let me say in reply to your favor of the 26th instant that I know all about the Prussian Reilroad

experiment and have all the data relating thereto. I hope to do something on this line in this country, but it is hard to get the plan started.

Yours very truly,

seriou view as a

FINANCIAL MEMORANDUM No. 3506
DATE 11-28-16
EFFECTIVE CONLINUOUSLY

Georgianish Service Dept., Arthur Hadd, Sec'y

. S. B. Mambert. Vice President & Financial Executive

summer: Royal ties

Division in

Question: Export Division, T.A.E.Inc. and Sales Division E. S. B. Co. proper.

Mr. Kellow and the writer had a short talk this P. M. regarding the subject of mendling the accounting in connection with royalty on the books of Manuse A. Edison, Personal and R. S. B. Co.

he delagon towage astery to, has related on the boose an account called "against ear equation" experies and distinct from the "about norm" account and mave credited to said against account all amongs to one source for one thinks. On the live centry, the S. A. E. Formand carried no occount on their books against the Standard Company of the Company of the Standard C

We propose that both the Personal and the Storage Battery Company will continue to carry a separate occuratior royalties on our respective books and not confuse them with the other charges to and from Minons & Edison, Personal.

The Storage Sattery Co. will at the end of such month render to Thomas A. Edison Forbanni "Noyalty Account" a credit meso covering the amount of regulates charged customers during said months, with the exception that royalties in connection with sales to insmot will be handled on the following banks:

There is a special agreement whereby beamed has made a deposit to hr. Edison of \$\( \tilde{\chi}\) \tilde{\chi}\) to gagints which deposit one-half of the royalties on all calls shipped to him is to be charged.

heading it through subspacedure in this matter (when we were heading it through iss keptor livision) are to bill the Export Livision with the vall meant of the royalty and credit Royalty account for general ledger. Then it homes teld his account to the Export Livision he made a deduction for one-half the amount of the royalty, which was billed back to us by the Export Livision; credited to them and charged to Royalty account by 1. S. s. Co. 20 now propose to handle the immost royalties in the following manner:

(a) On our invoice to Monnet for cells we will charge the full amount of the royalty.

(b) Render a credit memo applying against the said charge for royalty for one-half the amount of the royalty "on account of deposit".

. .

CATE -11-26-16

now- Secretary, Edison Storage Battery Co.

no. 8. s. Nambert, Vice Fres't & Financial Executive

suspect: Royal ties

#### Division in

Question: Export Division, F.A.E.Inc. and Sales Div. E.S.B.Co. proper.

- (c) Rouder a credit memo to T. A. E. Personal for the full amount of the royalty.
- (d) Render a charge to A. A. E. Personal for one-half of the revelty, deducted "on account of deposit".
- (c) We recommend that the total amount standing to the credit of Royal ty Account on N. S. S. S. Co's books be gaid in each with the exception of an arbitrary figure, may (300.00, to cover royalty not yet collected;
- (r) On the first of each month thereafter to pay to T. A. Edison such royalties as we have collected in the previous month as determined by the cash book, leaving any balance open on Royalty Account.

Mr. Kellow will handle the situation on the T. A. Edison Personal books along the following lines:

(a) Credit Honnot "Royalty Leposit" account with the \$25,000.00 deposit.

- (b) Credit account Royalties Earned with all royalties, per credit memos of the Storage Eattery Company.
- (c) Open a separate account with Edison Storage Battery Company Boyalty Account and charge to this account the amount of all credit memos rendered by E. S. B. Co.
- (d) Credit E. S. B. Co. with amount of one-half of royal ties billed as shown by their debit memorandums.
- (e) Charge Monnot Royalty Deposit account with onehalf of royalties as shown by E. S. B. Co. bills.

ARTHUR MUDD. Secretary

Edison Storage Sattery Co.

Kessrs. Chas. Edison-H.F. Miller-R. W. Kellow-G. T. Ozen-H. Musk-H. M. denstead, Flynn-Coggins- Bremer-

A I CLYMER

idison Storage Battery Co.,

Orange, N. J.

serves, our brain

December 11, 1916.

My dear Mr. Edison : I was much gratified to read in a letter from a stant to real our assets

you a few weeks ago, that the bettery combany is doing finely, and bound am not surprised to learn that it is participating in the upprecedents industrial prosperity of the country. Bose ten most surprised to the country that the country the country that we have the country that the country that we have the country that the country that we have the country that we ha me that the company was then earning enough to justify dividends were make our our it not for the fact that you were saving us money to pay off \$500,000 in boass maturing in July 1950 and that still this year the condition of the saving this, after having waited potiently and hopefully for si confidence mou "results," which I have felt ballery at superior a product as the Edia to believe that the initial divireferred to, I have been encoura dend may probably be expected Japy. 1st nrow of course I shorld be much in sail dunce

d to know. Wit hour out interested allon, of th with what particulars your time will allo e past year. I have been especially in company has been getting in the past e share of the submarine battery business, hopeful of our getting a large

from this and foreign countries, in view of the extroardinary plans

and immediate demands for sut-sea vessels.

May I ask along what lines our largest increase

Also, what is our present capacity in orders is materializing ? and the number of cells at present manufactured per day, and the amount

Mr. Edison, #2

of our unfilled orders ? I feel confident you will not consider these questions impertinent as coming from a minor stockholder, but I am personally interested in the progress of the company, keep all information confidential and you have kindly informed me quite fully in the past.

Ameiting your kind reply with much interest and with my best wishes, I remain

Very truly yours,

and Clymen

December 13,1916

Mr. A. I. Clymer,

Van Wert, Ohio.

Doar Mr. Clymor:

Replying to your favor of the lith instant, lot me say that we have scarcely any wer business with the Storage Battery. Our trouble is to compete with the lead battery.

our own steel down from this bard or or or the cut of the very thin size we use. We also contemplate plant to make our orm steel our orm steel related to the plant to make our orm large of the cut o

We have sold only three submarine batteries. We have to fight a hard combination which does things we cannot do.

Yours vory truly.

A/1588

## Edison General File Series 1916. Birthday Greetings (E-16-10)

This folder contains letters congratulating Edison on the celebration of his sixty-ninth birthday. Among the items for 1916 is a letter from journalist John A. Sleicher reminiscing about Edison's demonstration of his tinfoil phonograph in January 1878 at the Western Union headquarters in New York. Also included are letters from longitime Edison associates Sidney B. Paine, manager of the Mill Power Dept. at General Electric's Boston office, and Frederick A. Scheffler.

Less than 5 percent of the documents have been selected. Most of the items not selected received no response from Edison. Some bear his marginalia, indicating the reply of a simple "thanks."



NEW YORK

JOHN A. SLEICHER

February 10/1916

Thomas A. Edison, West Orange, N.J.

My dear Mr. Edison:

Let me congratulate you on your birthday and wish you health and happiness for many years to come.

It is a long time ago that, while I was the agent of the New York Press Association in the Western Union Building, I was called downstairs with the other press managers to see you make your first exhibit of the wonlerful phonograph. I shall never forget the weird feeling I experienced when you talked and crowed and shouted into the little instrument and then reproduced your voice. Out of that production has come the finished product of your genius. Long may you live to enjoy the honors so worthily conferred uson you.



# GENERAL ELECTRIC COMPANY

PRINCIPAL OFFICE SCHENECTADY, N.Y.

84 STATE STREET, BOSTON, MASS. February 10, 1916.

Mr. Thomas A. Edison, Llewellyn Park, Orange, H. J.

My dear Mr. Edison:-

Will you kindly accept my hearty congratulations on your sixty-ninth birthday.

It does not seem possible that it will be thirty-five years next October since I formed connection with your Company. As I look back upon those earlier years and consider what has been accomplished by you, I think I can appreciate - possibly only to a limited extent - the tremendous debt which not only this country but the world at large owes Thomas A. Edison. You not only created an art but devised ways and means of turning that art into science, and the name which you have made for yourself will never be forgotten so long as civilization endures.

I consider it the greatest honor of my life to have been associated with you in those early pioneer days and I have been very grateful that through all these years that connection has been maintained. You must feel gratified when you think of the achievements which you have accomplished - but to my mind there is a greater monument, which you have created, in the affections and esteem of those who have been associated with you. I sincerely trust that you may be favored with many more anniversaries and that your powers to think and achieve may remain Host sincerely yours, Sidney Maine unimpaired for years to come.

FREDERICK A. SCHEFFLER EIGHTY-FIVE LIBERTY ST. NEW YORK

MEMBER AM, BOG. OF MECHANICAL ENGINEERS. AM, INST. OF ELECTRICAL ENGINEERS.

· February 11, 1916.

Mr. Thomas A. Edison,

Orange, N.J.

Dear Mr.Edison:

Will you please accept hearty congratulations from Mrs.Schoffler and myself on your 69th birthday?

It is almost thirty five years (May 30,1881; it is wonderful how T.A.E. associates can reacmber dates), since I had the pleasure of taking up some work for you at #65 Fifth Avenue. Even at that time the "boys" used to speak of you as "the old man"; and there was just as much sense in their doing so at that time, as there is now.

Long live Edison!

Sincerely yours, But Soliff-lan

FAS-L

### Edison General File Series 1916. Book and Journal Orders (E-16-11)

This folder contains correspondence and other documents relating to books sent to Edison or ordered by him. Among the items for 1916 is a letter from Brentano's regarding the renewal of Edison's subscription to various periodicals sent to daughter Marion Edison Oeser in Germany, along with Edison's comment that he would "like to know if these periodicals ever reach her address. I myself cannot even receive letters." There is also a carbon copy of a letter from Edison to sanitation engineer George A. Johnson thanking him for his book, The Typhoid Toll, and remarking that "two of my children have had typhoid." Other correspondents include William G. Frost, president of Berea College, who presented Edison with a copy of Horace Kephart's Our Southern Highlanders; and Charles E. Speirs of D. Van Nostrand & Co.

Approximately 20 percent of the documents have been selected. The material not selected consists primarily of routine orders, letters of transmittal, and unsolicited correspondence. Browne Carburetors

-

Mr. Thomas A. Edison,
West Orange,
Now Jersey.

,,,,,,

My dear Mr. Edison,

We are sending you herewith autographed copy of Mr. Browne's "A Handbook of Carburetton", just off the press of John Wiley & Sons, Inc.

Critics who passed upon the original manuscript consider this work to be the most complete and comprehensive treatment of the subject to date.

Engineers recognize the importance and necessity of a standard of carburetion. We believe that in compiling and distributing this work, Mr. Browne and this Company have contributed much to that end.

Very sincerely,

- ...

HEARST'S INTERNATIONAL LIBRARY CO. Publishers UN WEST ANTI STREET NEW YORK

Feb. 24, 1916.

Nut now Mr. Meadowcroft. c/o Thomas A. Edison Co. West Orange, N.J.

Dear Mr. Meadowcroft:

One of our men, who left suddenly for the west last week, told me as he was leaving that he had called on you to see if Mr. Blison would be interested in presenting a large masher of copies of Hadson Maxim's "Defenseless America" to his employees. Mr. Maxim has waived his royalty interest in order to allow wide distribu-tion of the book in the cause of preparalness.

Our Mr. Leussler gave me the impression that you thought Mr. Edison might be interested in doing this, and that he quoted you a price of \$250. a thousand at which we are solling many thousands.

Now, in talking with Mr. Maxim this mornnow, in valency with a region ing, I told him the facts, and knowing his friendship for hir. Bitson asked him if he, Mr. Maxim, wished us to make Mr. Edison the some cost price that we give the author on Mr. Ealson the same cost price that we give the author of copies that he gives away of this edition, viz. \$175. per thousand. Or in boxes \$185. per thousand.) Mr. Maxim said that by all means he wanted Mr. Edison to have the lowest coat.

I have sent you a complimentary copy of the book which has been more widely praised than any other book on the subject. Will you please let us hear from you if Mr. Edison is interested?

Very truly yours,

Chemias

Feb. 28th. 1916.

D. Van Nostrand Company, 25 Fark Place, Now York City. Attention of Mr. C. E. Spoirs.

bear Mr. Speirs:

. few days ugo you sent me four or five books on approval, with a bill. I have mislaid the bill, and would be glad if you will kindly send me . a duplicate.

Hr. Edison wants you to send the follow-

ing:

"Text Book of Organic Chemistry" Bernthsen-Sudborough

"Electro Chemistry of Organic Com-pounds" Lob-Lorenz.

Published by John Wiley.

Will you kindly sond those to me and oblige, Yours very truly,

Assistant to Mr. Edison.

Order from Yan Moshaud Test 1000th of Organic Chemistry Rim Hison - Sudboroug ( Ecoto Chamistry of

Organic Componed.

Lob Lorenz John Wiley

TELEPHONE CALL

BOWLINE," NEW YORK

# D. Har Niesternad Campany, publishers, importers and booksellers,

25 PARK PLACE

NEW YORK March 17th, 1916.

Mr. Wm. H. Meadowcraft, Laboratory of Thos. A. Edison, Orange, H.J.

P.O.BOX

Dear Sir:

With reference to your order of January 26th, we are sending Parts J. and II. of Dyson's "A Manual of Chemical Plant", which is all that has so far been published.

This is to be a subscription work consisting of twelve parts, and in accordance with the publisher's arrangements we are retaining our bill for the price of the entire book, and which is to consist of twelve parts.

Part III. will be published some time this month, and subsequent parts will follow at intervals of about a month.

Yours truly.

D. VAN HOSTRAMB COMPANY.

CH MB.

The

Associated Chambers of Commerce of the Pacific Coast OFFICE OF THE SECRETARY

SAN FRANCISCO CALIFORNIA 276 Post Street

SEATTLE CHAMPES OF COMMERCE

THE CARLAND CHANDER OF CONNERGE THE POSTLAND CHANGES OF CONNESCE SAN DIEGO CHANNES OF COMMERCE SAN FRANCISCO CHAMBER OF COM SPONSHE CHANSEN OF COMMERCE

Mr. Thos. A. Edison, Llewellyn Park, West Orange, E. J.

Doar Sir:-

With our compliments we are sending to you, under separate cover, for your perusal and files, copy of "History of Tour of United States by the Honorary Commercial Commissioners of China", which we trust will be of interest.

Several hundred copies of the booklet have been forwarded to the Chinese Commissioners.

Yours very truly.

079-3-

La hermando

June 26th. 1916.

D. Von Hostrend Company, 25 Park Place, New York City.

attention of Mr. Speirs.

Dear Mr. Speirs:

After acking you to send to ir. Edison a copy of Schulz & Julius "organic Coloring Easter", I diclike very much to be obliged to return it; for when I cheed it to him, he seid that a mistake had been made, so he already has a copy of this book in his Albrery at home, having purchased it from you come 14thle time ago.

I am, therefore, return the book to you by real, and that effor an apology for having unduly troubled you.

Yours very truly,

Assistant to Mr. Edison.

Enclosare.

EUSINESS CONDITIONS FOR MERCHANTS, PARKERS AND INVESTORS BABSON'S STATISTICAL ORGANIZATION

ROGER W. BARSON, PRES-

ASSESS ROLY TO WILLISLEY HILLS, MASS.

Mr Thos Edison Thomas Edison 79-5th Ave New York N Y

Dear Sir

We have just issued an "Industrial Map of "exico" showing the leading products of this country and where (on the map) they come from.

Commodity prices in the United States will be affected by serious Mexican trouble accompanies it and is extremely interesting. If you are into a covered and the state is to be a covered and address see the country of the control of the covered by Hills, Mass.

Very truly yours

PFBryant GJF

MERLINGOFF Berea Co the Book "Our Southern Jorachich from very much actiged and also interested Us 9 have been over the Smoky & Blue Ridge Mountains Bereal by Colalt

Popular Science Monthly FAUL SHITS 229 POURTH AVENUE, NEW YORK

Mr. Thomas A. Edison, Lakeside Ave., West Orange, N. J.

Dear Mr. Edison: -

In a day or so you will receive five pounds of precious paper in book form containing 960 pages, 1393 arti-cles and 2113 illustrations. This book was originally published in installments of 160 pages a month and it was purchased by over 150,000 peo-ple who are more interested in facts than fiction.

That this publication contains more authoritative information, more articles and more illustrations than any other monthly magazine in the world, is not the MOST significant estimate of its value to you.

Cordially yours,

on your table back of derfine Liblary.



Dear Sir:

### THE UNPOPULAR REVIEW

HENRY HOLT AND COMPANY, Publishers

Mecche craft October 14, 1916
October 16, 1916 Knowing you to be specially interested in the relations of capital and

labor, we take the liberty of sending you the enclosed prospectus of a quarterly review started primarily for the discussion of those questions.

Should you care to see a specimen copy with a view to becoming a subscriber,

we will be happy to send you one.

Yours respectfully

HENRY HOLT AND COMPANY



#### BRENTANO'S FIFTH AVENUE & 2715 STREET NEW YORK CITY Oct. 27th, 1916.

Edison Laboratory. Orango,

Gentlemen:

We beg to call your attention to the fact that your subscriptions to various periodicals to which you subscribe through us, expire as indicated below:

> HARPERS MONTHLY COSMOPOLITAN MO OLURES MAGAZINE Will expire 1916. CENTURY MUNSEY HARPERS WEEKLY

Sent to Ero. Earle E. Coser, Hodenheimer Str. 4, Mulhauger Elsass, Gormany.

Tukoued Leke to Know of these periodicals ever dienah hed address Incycely crown of

Hoping to be favored with your order for the renewal of them (Compremain, we remain.

Very truly yours. TC/JB. F-106. BRENTANO'S. SUBSCRIPTION DEPT.

P. S. If you have already ordered the renewal, please disregard this notice.

We take pleasure in referring you to the Movember number of The Engineering Magazine of which you will find an Isau of where to you.

THE EDITORS.



3/11

Hovember 11,1916

Mr. Chas. H. Spairs, c/o D. Ven Hostrand Company, Ri Park Place, How York, H.Y.

My door Mr. Spoirs:

Mr. Edison wents particularly to obtain the following book, namely "rabollaria Ubersicht ber fametlichen Ferbrichtoff" by 6. Schultz and F. Julius. He wants to obtain one copy in the forman and one English trustation.

or second-head, but he would like to get it as quickly as possible. Will you kindly use your best offerts to get these for him promptly, and send them to me.

Yours very truly,

Assistant to Er. Edison.

### [ATTACHMENT/ENCLOSURE]

| Tabellaris Ubersicht Der          |
|-----------------------------------|
| Kunstachen Farastoffe             |
| бы                                |
| G. Soluely and P. Julius          |
|                                   |
| 1 German<br>1 English Franklation |
| 1 English Franstation             |
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# Deferred Nov. 14/16

Retained following books from Van nortrand Co.

Telegraphic Transmission of Photographs - Bake, Photographic Optics + Con Photography - Johnson Niceless Jelegraphy Flourie Radio Jelegraphy meldola Chemistry of Photography Haller + C. Jesla High Frequency Coil Green Organic Coloring matters Messuer Radiodynamics Bauzay Wireless Jelegraphy offree Hint for Wireless Designs Shappand & Mass Theory of Photographic Process Restruction in Photography Ruchher Niceless Telegraphy Photography for Sudents of Physics Derr Morgan Wireless Jelegraph Construction Olofo Chewish Ramsay

Wireless Telegraphy

Staulez

enneek - Seel

Hovember 27, 1916

Mr. George A. Johnson, 150 Massau Street, Mew York, M.Y.

Door Mr. Johnson:

Allow no to extend my thanks to you for your kindness in sending me the book on Typhoid. I am glad to have it, and shall be interested in reading it, as two of my children have had typhoid.

Yours very truly,

[ATTACHMENT/ENCLOSURE]

Taphine 2016 Mochimin March Linn for the sook (30 Merrye 1. Mehrsen Or Laft Line Constitution (2) 10 Merrye 1. Mehrsen 10 Merrye 1. Mehrsen (2) 10 Mehrsen 1. Mehrsen (2) 10 Mehrsen 1. Mehrsen (2) 10 Mehrsen 1. Mehrsen (2)

Dec. 4, 1916.

Mr. Brady:

Please issue a requisition on the Purchasing Department for two books on acoustics which were sent in to Mr. Edison by the D. Van Hostrand Co., New York.

. These books were ordered by mail by Mr. Hutchison, for Mr. Edison.

I have not the names of the books at hand, but Mr. Savage of the Purchasing Department can give them to you quite readily.

. B. MESKETALLA

17+5°

hr. Chas. H. Speirs, c/o D. Van Hostrand Company, 2t Park Place, How York, H.Y.

My doar Mr. Speirs:

Er. Edison is anxious to secure some books and periodicals on Wood-Pulp. Will you kindly take care of Mr. Edison's request, sending same to me so I may be able to hand them to him porsonally.

Thanking you for your prompt attention in advance, and with kind regards, I remain. Very truly yours.

Assistant to Mr. Edison.

Books received from D. Van Bostrand & Co., Lionday a. h., December 11th, on

WOOD PULP and PAPEL Hakilio:

Wood Pulp and Its Uses --- C.F.Cross, E. J. Bevan and 'L R. W. Sindall. (Westminster Series)

The Manufacture of FAPER -- R. W. Sindell, E. C. Shiftly Sunth (Westminster Series)

PAPER HabliG ---C. F. Gross and E. J. Bevan. (Spon & Chamberlain, publishers)

TESTING OF WOOD PULP -- Sindall & Bacon. /

PAPER TECHNOLOGY, on Elementary Lanual on the Lanufacture, 'Physical Qualities and Chemical Constituents of Paper and Paper-Laking Fibres by R.W.Sillball, F. C. S.

PAPER TRADE JOURNAL--October 19,1916.

| orm 1101      | •                               |              |             |          | ,                    |            |                       |   |
|---------------|---------------------------------|--------------|-------------|----------|----------------------|------------|-----------------------|---|
| EMORANDUM TO_ |                                 |              |             |          | Department           | DATE DOG.  | 16, 1916 <sub>a</sub> |   |
| IBJECT        |                                 |              |             |          |                      | *.         |                       | _ |
| Mr. P. Brady: |                                 | <del></del>  | <del></del> |          |                      |            |                       | = |
|               |                                 |              |             |          |                      |            |                       |   |
|               | We have order<br>ne copy of "Hi | story of the | Panama-Pao  | oific Ir | ternation            |            |                       | _ |
|               |                                 | story of the | Panama-Pao  | oific Ir | ternation            |            |                       |   |
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|               | ne_copy_of_"Hi                  | story of the | Panama-Pao  | oific In | nternation           | al Exposit |                       |   |
|               | ne_copy_of_"Hi                  | story of the | Panama-Pao  | oific In | nternation<br>nover. | al Exposit |                       |   |
|               | ne_copy_of_"Hi                  | story of the | Panama-Pao  | oific In | nternation<br>nover. | al Exposit |                       |   |

Meadocraft. this book to my address at It Myers Ha

### NEW BOOKS

Principles of General Physiology. By William Moddoch Brylin. 27 × 28 one pp. 24 + \$50. New York: Languang, Grons, and Ga. 1925. Pleas 28.00. The "The Principles Counted Strain S as procuses rather than as structure.' The wholety of reactions and the con-ditions affecting it, specifier with the energy changes involved, more more essential than the cleanical structure or physical properties of the structure process or the restanting proclets, although the knowledge of cleaning of the process of the restanting proclets, although the knowledge of cleaning of the of a peter analyst, the consequency. To see an illustration, instequents as that i-of a peter analyst, the consequency to the consequence of a peter analyst, the consequence of a peter analyst, the consequence of the consequence of a peter analyst, the consequence of a peter analyst, the consequence of the consequence of a peter analyst, the consequence of a peter analyst, the consequence of the consequence of a peter analyst of a peter

sical and physical properties of the mater cine are of no inp. ++4

### Edison General File Series 1916. Business Propositions [not selected] (E-16-12)

This folder contains unsolicited correspondence asking for Edison's support or endorsement of a business venture, invention, or idea.

#### Edison General File Series 1916, Cement (E-16-13)

This folder contains correspondence relating to the technical and commercial development of Portland cement. Among the documents for 1916 are letters from consulting engineer Edward Smulski and Edison employee Charles A. Nicolai concerning plans to test cement at the West Orange laboratory and other locations in New Jersey.

Two of the five documents have been selected. The material not selected consists of letters of transmittal and unsolicited correspondence.

TEDWA'RD SMULSK 4850C. M, AM. BOC. C. E. about this

S-M-I FLAT SLABS

### S-M-I ENGINEERING CO.

CONSULTING ENGINEERS

13-21 PARK ROW

New York. September 30, 1916.

Mr. Thomas Edison, West Orange, New Jersey.

Dear Sir:-

Several days ago Mr. Doe, or the American Concrete Steel Company, took up with you the question of permission to erect the concrete test slab which we / are contemplating on your ground.

We were informed that you were kind enough to grant the permission. Upon inspection or the ground, however, we find that it would not be feasible without serious interference with your business to carry on the test at your plant, as the test would require at least 350 tons of loading material.

In this connection Mr. Doe mentioned the possibility of using Edison cement. We are perfectly willing to use that cement, provided it is thoroughly tested.

Will you please let us know with whom the question of the cement should be taken up. We are anxious to start the building of the slab at the earliest possible date, so as to be able to conclude the test before the cold weather.

The amount or necessary cement we estimate at about eighty barrels. We contemplate pouring the footings ruesday or Wednesday or next week. The slab proper will oe built Toursday or Friday.

The place selected for the test is in Bloomfield, New Jersey.

Thanking you in advance for your kindness, I am

Yours very truly,

Edward Smulski

P.S. The text shet will be 32 gt popular supported by nine columns. It will be of the flat shet tigge periforced by The 5-10-7 system of reinforcement.

October 5, 1918.

Mr. Meadowcroft:

Re. attached from S. M. I. Co.

About a week ago the Engineers of the Concrete Steel Company asked me for the use of ground space in the rear of building #12 to make a test which I understood was in connection with New Building 21 operations. I Pointed out a space which we could spare to their Engineers see some of the company of the co

C Nicolai

Construction & Maintenance Service Division.

Mr. Ricolai says it looks like an abuntaing scheme, for tain reinforcing to for Edward comment.

### Edison General File Series 1916. Cement House (E-16-14)

This folder contains correspondence and other documents relating to the widely publicized development of Edison's poured concrete house. The correspondents for 1916 include housing developer Frank D. Lamble.

Approximately 10 percent of the documents have been selected. The unselected material consists primarily of unsolicited letters for information about the house, which received a perfunctory response or no reply from Edison.

# LAMBIE CONCRETE HOUSE CORPORATION

F. D. LAMBIE.

NEW YORK

TELEPHONE: RECTOR 5304

January 19,1916.

Mr. Thos. A.Edison, Orange, N.J.

Dear Mr. Edison:-

You will be glod to learn that I have at last

Yourd "The Thousandth Man" as Kipling speaks about in one of his scenes. The old and well known Boaton Backers, Tucker Anthony & Company have taken up and financed my steel forms and we are now busy getting started.

We have a choice selection of underwriters of the stock. One of your old friends, Mr. Fred Fish of Fish, Richardson Horrick & Mouve, who examined the patents, being one of them.

The new Company owns all the foreign rights as well as U.3.A. and we shall take contracts to build concrete houses, besides leasing the forms. This we feel will help us to keep the lease end atraight, never to allow the forms to get into the hunds of incompetents.

Your prophesy has come true that if I stuck to it and perfected the "one story to one cast" basic principle that sooner or later the right people, the congenial people, the honest as well, would be only too glad to come in with the necessary capital.

All I can do now is to thank you for past help you have given me. Your big reward no doubt is the knowThon . A .Edison

January 19,1916

ledge of the fact that we are going to place concrete houses

on the map.

-2-

Yours very respectfully.

Find Cambril

Vice Provident

FDL/RW

BASIC PATENTS ALL OVER THE WORLD

# LAMBIE STEEL FORM CO

CONCRETE HOUSES AND BUILDINGS CAST COMPLETE ONE STORY-ONE CAST

Millsadorier

61 New York, U.S.A. LONDON OFFICES 151a, 153a EUSTON ROAD, N. V CABLES AND TELEGRAMS

"JELAMCO" NEW YORK

6683

Deadmilleller Jun could

(MM Edwar Sometime to take the time fanswer my last letter to him in one or two lines, I would prige Such a letter very much

We are going slow but very Strong as we go - Han Dluty mouly \$1500,000, capital - Hubstantial and paid in now as need

rose que ace in pun visual give hearth

Frank O Lambie

Cuble Address "Edison New York Trom the Laboratory Thomas A. Edison, Orange, N.J. Jen. 24th. 1916. Mr. Frank D. Lambie, % Lambie Steel Form Co., 61 Broadway, New York City. Dear Mr. Lambie: Mr. Miller has handed me your Just now Mr. Edisonfavor of the 20th instant. is in the midst of one of his strenuous campaigns, and I am sorry that we shall be unable for the present to get a letter for you. It will be several weeks at least before we can get his attention to anything but the most urgent matters, but I will try to get your letter at some future time. Yours very truly. one saying he is glad to is cell I'm like in ans to my letter of 20 4 per I wish however that my letter ? ithen would not be Serral micks a as my childr

Took alushing -Man living up fine big Contracting Sept Have for Sexual Hundred thousand Real Y it Seems big Relief tome they burden lifted. Whoke me age in your usual 41 heath 61 Bolway

Medicalius Edison Singles Trom the Laboratory

Medicalius Thomas A. Edison;

Portion

Portion

Pin 1944

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Jan

### Lambie:

Allow me to express my appreciation of sympathy in regard to the recent fire at my plant, and to thank you for your good wishes.

I am glad to say that my concrete buildings were not much hurt, and they can be rapaired. We are hard at work now.

From what I hear, you are doing well with your system of Steel Forms for casting concrete houses commercially.

I hope you will cast the entire house at once before you get through.

Glad to note that you are so well pleased in taking my advice to go into this business. The future holds much for the poured concrete house,

Yours very truly,

Mos A Coloon

C. H. OLMSTED, PAG

A. H. OLMSTED, SECT & TREES.

OFFICE COMSTOCK BLOCK

## (Olmsted & (Olmsted

INCORPORATED

GENERAL CONTRACTORS

EASY HARTFORD, CONN., JANUARY 7TH, 1915.

MR. FRANK D. LAMBIE. 299 Broadway, New York, N. Y.

Dear Mr. Lambie:

Your letter asking how Mr. Dunham is pleased with the result of the first season's work is received.

As you know, Mr. Dunham bought your form at the suggestion of his friend, Mr. Thos. A. Edison, and I think that Mr. Dunham has never had any idea but that they would be completely successful, as he has every confidence in Mr. Edison's judgment.

Mr. Dunham at present is in Cuba, so I will reply to your letter, and it gives me great pleasure to say that as Mr. Dunham's superintendent I have erected ten separate structures with the forms in the months of June to November, inclusive, ranging from a circular sile to nine room houses, and that with each operation I have become more and more enthusiastic about them.

We at first feared that they might not fulfill all requirements, but as we learned to handle the forms, we came to the conclusion that we can build any sort of a concrete structure with them, while the costs obtained were less than we even hoped for. In this connection it may interest you to know that the last house erected, which is 25' x 28', containing seven rooms and bath with provision for finishing two large rooms in attic, cellar under entire house, was built complete for \$2,373.00. incuding plumbing, heating and lighting. We expect to reduce this cost on our next houses.

I cannot close without thanking you for the direct personal interest which you and your engineers have taken in our work, and I feel sure that your efforts will meet with the success which they merit.

Yours very truly,

ARTHUR H. OLMSTED.

### LAMBIE CONCRETE HOUSE CORPORATION

61 BROADWAY

F. D. LAMBIE. VICE-PRESIDENT NEW YORK

TELEPHONE: RECTOR 5304

January 26,1916

Mr. W.H.Meadowcroft,

Laboratory of Thomas A.Edison,

Orange, N.J.

My dear Mr. Meadoworoft:-

Yours of January 24th at hand. I thought it would be a good thing to have Mr. Edison enswer the last letter, so that I could keep same for future reference, insemuch as the last one that he wrote me is framed and hangs in my beforem to furnish me with new inspirations every morning. I got that I so good found I gumma outlied we are founding plong in fine shape and I am

sure that Mr. Edison would take a certain pride if he knew what we were accomplishing, which he will know something about a little later.

Yours sincerely

Frank D. Lambie

FDL/RW

### LAMBIE CONCRETE HOUSE CORPORATION 61 BROADWAY TELEPHONE: RECTOR 5304

F. D. LAMBIE.

He refers

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Suc

liane

NEW YORK

February 15, 1916

Mr. W.H. Meadoweroft,

Laboratory of Thos. A.Edison, Orange, N.J.

Dear Mr. Meadowcroft:-

Your letter of the 10th inst. received, also the good letter that Mr. Edison wrote. I thank you both very much for them.

on Mr. Edison to die, but as I had never read anything in my life regards Mr. Edison like this before I simply got "boiling hot" with indignation and if the author had come into my office that day he would have got physically licked as Mr. R.W. Watson, the financier and President of our

Company who handed me the article zould have assisted me. Wishing Mr. Edison and yourself every bless-

ing this New Year, I am

You are right in allowing such an article

### CAMBRIA STEEL COMPANY

F. H. MOYER HIVY CHARLE CHIEF ENGINEE ENGINEERING DEPARTMENT

JOHNSTOWN, PA. July 18, 1916.

Mr. Thomas A. Edison, did not go into the uniter Communicacy,
East Orange, N. J. other have done so after a fashion the

Dear Sir:- Cousin w

We are planning to build a number of houses for our working men and are interested in receiving information regarding coots and the method of constructing the Edison Foured Concrete Houses.

These houses are to be of four or five room class either with or without bath. Any information you may send us will be gratefully received.

Very truly yours, The gar.

FHM/G.

un them Lambies Co

et dolrano

9680

### CAMBRIA STEEL COMPANY

F. H. MOYER

ENGINEERING DEPARTMENT

JOHNSTOWN, PA. July 25, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:-

We acknowledge receipt of your letter of the 22nd regarding concrete houses. We note that you have not gone into this matter commercially, but that we can get information from the Bamble Concrete House Corporation, #61 Broadway, New York.

Thanking you for this information, we are,

Very truly yours,

Uffort. Tho

FHM/G.

A. T. CLARK ESTATE AND INSURANCE Say & heart personed with Edison Portland Cement Co the plan myself as others took the mother up. and Co Gentleman g read in the peopless form yours Coment house brutt of country to Coment house brutt of growth its year of have been thunking for h. L. D. ance in a row I have got Extract as the class of tenents that In purple and count approd to pay Diron rent that are Careless they are of a class if people Rinae Kenfun, now theres houses within from to die norma now in bulling within your in an their houses day and Computate pemplets or any plinted matter you could and me or of the live any house anywhen arrand the Crange that ) and look at hand when fronted got an forme or patterns and a shedule former toler from that world peach me as to former toler account from mile got my officerated grant him greatly approximated grant of mile to greatly approximated gone truly

Pecunical Company of the Company of

that I have been the instrument in the physical carrying out of at least a portion of the idea that sprung up in the great mind of Mr. Edison (Concrete Houses).

While my system one complete story at one cost, was not exactly Mr. Edison's original thought, it has proven successful and absolutely, commercial and such concerns as the American Steel & Wire Company, General Fireproofing Co., Loyal Hanna Coal & Coke, Crescent Fortland Cement Company and others for whom we have built concrete houses this year, are high in their commendations of building under their method, as well as the houses themselves.

There are no industrial houses built on the face of the earth that approach the big bunch of houses I saw last Friday at Donors, Fa. built by us for the American Steel & Wire Company, in beauty as well as strength, and it seems that every large industrial concern mants this class of house. Our concern knows where it could build 25,000 concrete houses in U.S. the next year if we could take them.

The Bankers who financed my proposition this year, after organizing and getting ready, which took about six months, started to build in July, have made such a showing that they are

going to finance the Company much larger , and 1917 holds great promise.

In the Jamery house building number of Concrete Cement Age, will appear with photographs, an article from a technical standpoint, on one of the large contracts taken. The Saturday Evening Post will write a story in the near future concerning our work. I will mail you both of these magazines. We have not spent a dollar in advertising and have suppressed all publicity the past year, simply proving out our system commercially in a large way so that the Benkers may know what they really got; now they are satisfied and are going alead strong.

During the last year I have given almost all my thought to pouring the <u>entire house at one cast</u>, and have made many experiments and find it practical and commercial, with a cheap set of forms costing not over \$2500. for a house 25 feet square, two stories and basement.

I can only get the cost of these molds down by using steel at the mein points of the house and fill in with 3 in. plank, making these planks subservient to the steel members, it all being so simple that it is perfectly wonderful, to my mind.

I have a model at my office end am going to form another Company to take care of all the smaller houses that are being offored such as my friend Durant of General Motors Company, wants thousends of these houses at Flint, Michigan, Bridgeport Housing Company wants \$1,000,000. worth at Bridgeport, Conn., and I can name dozens of concerns same way.

Mr. Ingersoll is ready to join me in this "whole house at one cast", as he has been over same thoroughly with me for many

months, and before I launch another Company, thought I would drop you a line to see if we could not possibly get Wr. Zdison(s consent to lend his name or become a director or samething, in this organization which Ingersoll and I will form early in the New Year on about the same basis as the old reputable Banking House of Tucker Anthony & Company, Senton, formed the "One Story One Cast" proposition this year, namely:-

\$1,500,000. Capital

1100 Common Shares par \$100.

issuing the \$400,000. preferred for capital, giving the same amount common as bonus, leaving \$700,000. for the promoters, which in this case would be Ingersoll and myself, and if we could enlist Mr. Edison's sympathy, after he had made proper investigations which I could furnish without any wear or that on his part, we would want to allet him \$100,000. woth of common stock and all we would sak for it would be to seek his advice occasionally, and we are confident that besides doing good work in the world we will make all of this common stock worth par and very much more.

Mr. Ingersoll has the best organizing and standardizing mind for this kind of work of any man I have ever met. He does not take hold of anything unless he makes a success of it. He is one man in a million and he and I are of perfect accord, great friends and we are both sure of success attending such efforts and the hard work we would put forth. (We would standardize the house some as he has his watch business).

At some opportune time I wish you would please do me the

great big favor to briefly approach Mr. Edison on the subject "take soundings" and if you thought he was the least bit impressed, I would come over with a model and lay the matter before him briefly, so he would I think "get the feeling".

No horry shout this, any time within the next half month. If you know in advance that he would not touch it with a 10 foot pole why of course it will be useless but the matter is so thoroughly next to my heart, and I see such visions that I thought it would do no harm to extend to him at this time the invitation, as he is the father of the entire movement and he is as glad as I am that the concrete house has come to stay. The Assocation of Portland Coment Manufacturers of United States, who met in New York last week, decided to launch a big campaign in 1917 for the Concrete House. This Association is with us.

If Mr. Edison does not exactly approve of the financial outline as above Mr. Ingersoll and I would change it. Mr. Ingersoll will buy some of the preferred stock himself on same basis as investors who will all be our friends.

Yours very truly,

"The Laudie"

MR Edison mute me in 1914 that he hoped I world cast whale Home at once before I go through -now here it is tit, right

TELEPHONE RECTOR GD18

December 30, 1916

Mr. W.H. Meadowcroft, Laboratory of Thomas A. Edison, Orangs, New Jersey.

Dear Mr. Meadowcroft:-

Forgot to cay that the patents that have been allowed this year upon my new system of pouring concrete houses, ONE COMPLETS HOUSE at one cast, are far superior and more besic in the opinion of my patent attorneys than were the patents on the one story one cast proposition, which Mr. Fred. Fish of the firm of Fish, Richardson, Herrick & Neave, Boston, passed upon as being Al, for the Banker.

Yours very trul

N/amleis

December 30,1916.

:: PERSONAL ::

Hr. F. D. Lembid. 61 Broadway. How York, H.Y.

Dear Mr. Lambio:

I have received your favor of the 29th instant, and an just writing this line to acknowledge it.

In. Educate uniform reliev to against becoming interested in outside enterprise. and I usually answer letters to this effect. However, as your is so different, I am going to show him your letter in a faw days and will let you know what he same.

with the best of good wiches to you for the coming year, I remain,

Yours very truly,

Assistant to Lr. Edison.

17756

### Edison General File Series 1916. Charities and Loans (E-16-15)

This folder contains correspondence and other documents concerning Edison's charitable contributions, financial assistance, and donations of equipment. Among the documents for 1916 are solicitations for war relief efforts, including the Allied Bazaar for the relief of France and Belgium and the Bazaar for the Relief of Widows and Orphans of German and Austro-Hungarian Soldiers. The correspondents include electrical executive Charles A. Coffin, Marshall C. Lefferts of the Celluloid Co., and Richard C. Maclaurin, president of the Massachusetts Institute of Technology.

Less than 10 percent of the documents have been selected. The unselected documents received no substantive response from Edison. Many bear the notation, "no ans."



#### J. D. DAVIS 45CMESUCERIORISEETX NEW YORK

Wadsworth Hall, Arrochar, S.I. Jan. 17th. 1916.

Dear Mr. Edison:
You will recall that about a year ago I introduced
you to Herbert Lewis and S. Takaki of Mitani & Co. with whom you
sentered into contracts for Toluch. A the time I Left the matter
of my remuneration open at the suggestion of Mr. Meadowcroft and
now being ind dire strates I called upon you today to see if you
would assist me out of my broubles.

I have had no money from Lewis and but a small sum from Mitsui.

I have become involved in unfortunate litigation and stand an excellent chance of going to Ludlow Street jail for contempt of court unless I can raise Six Hundred Dollars on Tuesday and I appeal to you to assist me to this end. I am not intentionally in contempt for I was out of the city at the time and wired for an adjournment which was not granted me.

and laid all I was at the Laboratory today to see you in person and laid all the matter in detail before in Meadowcroft as you were not to be disturbed. If you will ask him he will tell you the details should you desire to know them.

tails should you desire to know thom.

I am sending this to your home by special delivery at his suggestion and I shall call at the Laboratory tomorrow morning for my answer which I know will be favorable if you will but realize my position. It is either the money or Ludlow Street for me. With best wishes for your continued good health and and more and man, for your, and and any for your, and any for Your Truly Yours, A, with expressions of esteem I am,

m Edward John Menson or 1

117 HUDSON STREET

Franklin 313

Mr. W. H. Meadowcroft.

Thomas A. Edison Co., Inc.

Silver Lake, N.J.

My dear Er. Meadoworoft;

My wife is interested in a bazar for the fit of the war orphans and widows, and I have promised to help her to collect a sum with which to begin her work. I have therefore written to all my friends with whom I am associated in some way, and take the liberty to solicit through you a small contribution in money from Mr. Edison ---- I have hardly the temerity to ask if he would be willing to donate a phonograph to be raffled at the bazar. Pianos and automobiles have already been received, but so far no talking machines have been contributed. The German Chemists' Society will have a booth at the Bazar, where contributions will be on sale. In view of the very large attendance anticipated the exhibition of these will be advantageous. and besides Mr. Edison will be assisting a worthy cause -- the alleviation of suffering humanity.

Trusting that I may hear from you favorably and thanking you in advance for your kind cooperation, I am.

Silver

Huge Solweifer

Chesing to Ambune for #2

### [ATTACHMENT/ENCLOSURE]

### SUBSCRIPTION LIST.

The undersigned agrees to pay to the Bazaar-collection of Mrs. H. Schweitzer, for the benefit of the widows and orphans of the war, the sum named below:

| Name.                                   | Address.                                | Amount.                                 |
|---|---|---|
| A pro-Schweitzer American,              |   | \$200.00                                |
| A pro-German Schweitzer,                |   | 5.00                                    |
| William Strathman,                      | 2906 Broadway,                          | 25.00                                   |
| George Geil,                            | 2906 Broadway,                          | 1.00                                    |
| Grant Burns,                            |   | 1.00                                    |
| William G. Burns,                       |   | 10.00                                   |
| Luigi Bozzo,                            |   | 1.00                                    |
| A pro-Ally,                             |   | 1.00                                    |
| From the trenches,                      |   | 1.00                                    |
| Hugo Lieber,                            | •                                       | 5.00                                    |
| Franz Fohr,                             |   | 5.00                                    |
| Schafer Brothers,                       |   | 5.00                                    |
| A friend of the Schweitzers             |   | 50.00                                   |
| William II. Croxton,                    |   | 5.00                                    |
| George E. Cruse,                        |   | 5.00                                    |
| J. Edgar Bull,                          |   | 25.00                                   |
| Charles S. Jones,                       |   | 5.00                                    |
|   |   |   |
| *************************************** | • | • |
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|   |   |   |
| *************************************** |   | ••••••••                                |
|   |   |   |

Orange, New Jersey, February twolfth, Einsteen hundred and cixteen.

Tr. homas Edison, West Crange, N. J. Ty dear Tr. Edison: Day I cannot prosently Comment

We are writing 18 to try you will be ofr grount at a small dimer to be given at the Essex County County Club, Priday evening, Hereb thire, Nineteen beadred and sixteen, at eight o'clock.

The object of the dinner is to gather together a number of our friends who we know are deeply in reposted in the welfare of the Orangou to discuss a proposed plan for the construction and endowment of a new hospital building for the New Jersey Orthopsedde Hospital and Dispussary to meet the requirements that are becoming more argent, insistent and pressing every year.

During the past few menths we have been struck with the wenderful work already organized in Europe to repair the ravages of war. Not only are arms and logs being substituted for these shot away, been and mutilated, but eplentially equipped schools have been entablished to train these crippled on the field of battle for trades and professions in which the skill of the surgeon makes it possible for them both to support their families and serve the State. If this can be done in Europe under the stress and strain of arm, surely it is a sad commentary on our social organization that in time of prace and plonty, seventy five little orippion during the past few menths should have been turned away from the deeps of our hospital and made to easy through life,

unless otherwise relieved the burden of deformity.

In the hope that we may be able to prevent this suffering and waste of energy and most the ever currensing demands for treatment, plans and estimates have been prepared for a hospital to be built at the cost of two hundred thousand dellars on property already purchased. To raise this amount it will be necessary to secure the co-operation of the sea to whem the people lock for leadership and guidence in undertakings of this kind, not only because of their individual generosity, but because of their business experience and judgment. Wer this reason we wish to lay our project before you and sees of your friends. Furthermore, we want an experience you and sees of your friends. Furthermore, we want an experience for our refunal to join forces with the Hemorial Hospital in Hinsteen hundred and twelve, and to report the results of an investigation into the actual needs of Orthoppedie work in the community.

We know if we can prove to you the need of this hospital and show that it can be placed on a sound financial basis, the money will be reised. We also know that it we fail to establish our case and that after hearing the facts you are still of the opinion that the new hospital will simply be another burden upon an alreadyovertaxed community, the money cannot be raised.

We want to try out this issue.

He subscriptions will be solicited, or will your presence entail any obligation whatever in the future. We do hope you will come and give us a chance to present our causa.

Kindly reply to Everett Golby Essex Building newark n. J. J. Very sinoprely yours,

DR. H. SCHWEITZER

NEW YORK. February 16, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

My dear Mr. Edison: -

ghilan

Mr. Meadoworoft just informed me of your liberal contribution to the Bazaar which will be held in Madison Square Garden from March 10th to March 24th.

Permit me to thank you most heartily for your great generosity in not only giving us the instrument, but also arranging for a concerts during the time of the Baxaar and for demonstrations of recording the human voice.

I have already communicated with the Bazaar authorities and have arranged for the construction of a concert room. The exhibit will be in charge of the German Chemists' Society, which will take great pleasure in arranging with Mr. Meadoworott all further details.

Again thanking you, I am, with kindest greetings,

Yours sincerely,

SERIAL No. 4396/.

BELOW FIRST THE CHRISTICS OF PREASURES OF PORTATION.

1. In dispute purpose, we will be instanted under some and world somewhere plantled in the control of the control of

TO WHOM I homeas a laise.

STEET NO.

POSITIVE MENTO Pare.

COESTY

STATE PRINT YELLY

COLUMBUS, O. February 201916.

Dear Six,—
Sam saving sever years herein the Chic state I miteritiary and are beauty about the first location, and it of your phomographs that has been sufficiently by one of laborates he that has been sufficient for the control of your phomographs that for a way charing little from another and his to serve any charing little from another with in the wing years to stay herearch if dame, not importing for a year to stay herearch if dame, not importing for a year to stay of a dame a young man of hereing for a year to she you have had home for some weath and examination and examinations to the first form that are small and than king you a semain

# 43961.

Day that I have acut many phonos lightly to the private but am at present cleaned out if more coma in well send you one formation.



## CENTRAL VEREIN

Gegenseitige Unterstützungs-Gesellschaft Germania

Milwaukee, Februar 23,1916.

The Edison Phonograph Co. Orange, H.J.

Dear Sir:-

Write and say that I have just presented and a large phone to the German Bagar

Ho doubt you have already heard about the "Charity Bazar" which will be held at the Hilwankee Auditorium from Jarch 2-7, 1916 for the benefit of the war sufferers Leld un Mid 4 Lellin

The auditorium, a world famous building, has been rested from celler to roof. Every inch will be used to raise money for this are purpose. We Veny nearly Call this are

purpose.

The greenest attraction is the wind that which has a superity of bourse are to account to the which has a superity of bourse there are a compared to the superity of the superity of

from all over the world a rug from Palestine, antiques from Jerusalem, table cover from India, wagons, horses, automobiles, tickets for trips to Europe, houses, lots, pianos and every thing immeriable, also and good deal of cash money that your to do the value

The only thing that is not represented at the auditorium so fur is a honograph and I am hereby disking you to plaese to be so kind and donate one of your splendid machines to this bazar. If it is not possible for you to send one, you could give us a credit to one, of your lilworkee agencies. of your Hilwaukee agencies.

This would be very good advertising begane there will be but from all over the united but from all over the United States and most of the Wisconsin business men are anxious to donate to have their goods displayed

It would be a very small expense on your side and you wald be doing a very good deed which will never be forgotten, and gon will Sekretärs-Office

Room 11 Metropolitan Block
Third and State Streets



# CENTRAL VEREIN

Gegensritige Auterstützungs-Gesellschuft Germaula.

Milwankee.

#2.Edison Phon.Co.,

be proud to say that you also did something for the benefit of the invalids of the war and also the widows and orghans of the soldiers who gave their lives for their country.

Hoping that you will not decline this appeal to help along this noble cause and hoping to hear from you very soon,

Thanking you in advance, I am,

Jratefully yours,

Sec'y of the Central Ver.

G.U.G.Germanla.

1322 Feft Car with a first of the second of

29 WEST THIRTYTHIRD STREET NEW YORK TELEPHONE 357 GREELEY

MRS. PAULINE KRUGER HAMILTON

The Austro-Hungarian-American Committee of Vienna

#### OFFICIAL COMMITTEE

Count Albert Apponyi

Count and Countess Hedervary

Professor Baron and Baroness Anton von Eiselsberg Countess Nandine Berchtold

Professor and Mrs. Fuchs

Professor Baron and Baroness Clemens von Pirquet

Pauline Kruger Hamilton

#### [ATTACHMENT/ENCLOSURE]

## "A Night in Vienna"

For the Benefit of Austro-Hungarian Orphan Babies and Blind Soldiers

GRAND BALLROOM, WALDORF-ASTORIA

Monday, March 6th, 1916, at 9 P.M.

A DELIGHTFUL entertainment, replete with novelties, has been provided for you. Many of the country's most celebrated artists have contributed their services to make "THE BABY'S FESTIVAL" a success.

VIENNESE AND HUNGARIAN MUSIC

This entertainment will afford you an evening of delightful pleasure and an opportunity to aid a most worthy cause.

Arranged by MRS. PAULINE KRUGER HAMILTON, under the auspices of the Austro-Hungarian Committee of Vienna

COUNTESS NANDINE BERCHTOLD COUNT AND COUNTESS HEDERVARY PROFESSOR BARON AND BARONESS ANTON VON EISELSBERG

PROFESSOR AND MRS. FUCHS PROFESSOR BARON AND BARONESS CLEMENS VON PIRQUET COUNT ALBERT APPONYS

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MISSES GODOWSKY Costumes Committee Mr. P. T. FRANKL Decoration Committee

"Babies are Neutral"

For further information, please write or telephone Mrs. Pauline Kruger Hamilton 29 West Thirty-third Street, New York City

Telephone: Greeley 357

ud M

Feb. 28th. 1916

Dr. Hugo Schweitzer, 117 Hudson Street, New York City.

My doar Dr. Schweitzer:

This letter is writte, (imply as a reminder that we are exciting instructions about the Diamond Dice and twenty records for the German Bassar.

I suppose your friends will advise us in rood time. I am morely writing to show you that the matter has not been forgotten at this end of the line.

Yours very truly,

## Bazaar for the Relief of Widows and Orphans of German and Austro-Hungarian Soldiers

JUL. P. MEYER, (Director of Homburg-Auer.

New York, March 6th, 1916

Dear Sir:

Whatever view we may take of the political aspect of the controversy in Europe, we all regret the cruel war raging there and sympathize with the innocent victims, the widows and orphans. A bazaar will be held in Madison Square Garden from March 11th to 24th to raise a fund in aid of the widows and orphans of the German and Austrian soldiers who fell on the battlefield.

The American people have ever been ready to relieve the distressed and the needs of the widows and orphans are especially appealing; the loss of husband and father they have to bear with what fortitude they may command, their material necessities it is in our power to alleviate. Will you aid in this humane work by sending a liberal contribution?

Checks may be made out to the order of Ju m. Edwin Very 9 think it will fail y think of me Riley's to let one of allows Ophia 126 Duano & on Finance.

designation They went for for his on Finance.

#### HENRY L. DOHERTY & COMPANY SIXTY WALL STREET

Mr. Thomas A. Edison,

Llewellyn Park, N. J.

Dear Mr. Edison:

Earch 9th, 1916.

The New York World will shortly inaugurate a campaign to secure a fund of \$30,000.00 to provide the machinery and equipment to work out a higher standard of illumination than has yet been demonstrated by lighting the Statue of Liberty.

If this plan meets with your approval, you can help create interest in the campaign by sending in your endorsement to the New York World immediately after the first article is published. I will arrange to notify you by telegram or letter when the first article will appear.

It is desired to keep this matter strictly confidential until the opening gun in the campaign is fired by an article in the New York World.

Yours sincerely.

HLD/F

Hung Dohmty

#### THE NEW YORK ASSOCIATION FOR THE BLIND (INCORPORATED IN 1806 FOR THE STATE OF NEW YORK)

PRESIDENT HON. JOSEPH H. CHOATE

> VICE-PRESIDENTS MISS HELEN KELLER DR. JOHN H. FINLEY DR. F. PARK LEWIS



MR. ROBERT W. DE FOREST TREASURER MR. FREDERICK L. ELDRIDGE SECRETARY MISS WINIFRED HOLT

LIGHT HOUSE No. 1 III EAST FIFTY-NINTH STREET TELEPHONE, PLAZA 3370-3371

HONORARY VICE-PRESIDENT

OBJECTS

TO PREVENT UNNECESSARY TO HELP THE BLIND TO HELF THEMSELVES TO SUCCOR AND AGED AND NEEDY NFORMATION SOUGHT AND GIVEN

Dear Mr. Edison:

CONCERNING THE WORK INFORMATION AND

SIGHT SAVING FREE CLINICS SALES ROOM GLASSES HEN'S WORKSHOP HOME TEACHING HOCIAL SERV CANGES CONGERTS PARTIES CLUBS VACATIONS TICKET BUREAU CLOTHING BUREAU SERVICE 18 GIVEN REGARDLESS OF RACE OR GREED INSPECTION

CHITICISM AND THIS WORK IS SUPPORTED ENTIRELY BY VOLUNTARY

CONTRIBUTIONS OFFICE HOURS D TO S WEEK DAYS THE SECRETARY MAY BE FOUND THURSDAY AFTERNOONS FROM 4 TO 8 O'CLOCK, OR BY APPOINTMENT On behalf of the President of this Association

please allow me to thank you for your welcome contribution for which the receipt is enclosed.

At this particular time we need more than ever the support of our friends, and we deeply appreciate your continued interest.

Very truly yours

For THE NEW YORK ASSOCIATION FOR THE BLIND

Thomas A. Edison, Esq., Orange, N. J.

| THE NEW YORK PHONE, PLAZA 3370 Ackin | New York, Mach 221916, ASSOCIATION FOR THE BLIND 111 EAST 69TH STREET covoledges with thanks |
|--------------------------------------|--|
|                                      | Dollar   |

Eldridge pu Hy Treasurer. Secretary. MISS WINIFRED HOLT.

"It is very encouraging to note the progress that the Association has made. It is doing great work, necessary work, practical work." Helen Keller, Vice-President. The Organization receives neither City nor State aid, but depends entirely on Voluntary Contributions.

......

PLEASE ADDRESS ALL CORRESPONDENCE TO THE FIRM AND NOT INDIVIDUALS

7de

RANCH
A WEEKLY JOURNAL FOR
THE FARM HOME

BUSINESS DEPARTMENT.

DALLAS, TEXAS

March 24, 1916

Er. Thos. A. Edison, Orange, N. J.

Dear Sir:-

In the absence of Col. F. P. Holland to whom it was sent, your favor of Larch 17th inclosing check for 350 as a contribution toward a home for superanuated writers, has come to my deak.

In behalf of Col. Holland penalt me to thank you most sincerely for the contribution. The Colonel will be absent from Dallas for several weeks but will write you in person on his return.

Yours very truly,

MANAGING EDITOR.

COLBY & WHITING LAW OFFICES ESSEX BUILDING, NEWARK, N. J. 8594

Fr. Thomas A. Edison, Orange, N. J.

Dear Sir:

I have interligated the attract Tragar.

Theorem to be find that their scapping to be promotored at a continuent warrant

At the request of President Hibben, of Princeton University. I am calling a meeting of a number of men living in the neighborhood of Newerk and the Oranges to discuss the possibility of taking some part in supplying and managing a New Jercey Worth at the Aliney Bonagor to be hold at the Orand Central Palace, New York The Thirty Taking to June 14th, 1916, under the auspices of the National Wifest Relief Committee, the War Relief Clearing House for France and her Allies, and the Commission for Regime

I realize that you have already received peffy appeals for this uppearable to the conditions in Belgium ere such as to call for even greater sacrifice from those who can spare the time and effort. I speak of your sacrifice of time because it is your time we need in this instance and not your money as the object of our undertaking is not to raise funds, but to induce manufacturers to give goods that may be cold at the Barear. The result, of course, is the same, but the method is different and shifts the burden from the few who have already done more than their share, to the industrial community now able and willing to contribute generously.

The meeting will be held at my office, Room 520 Essex Building,
Newark, Monday afternoon, May 15th, at four o'clock. I trust you will
find it possible to attend.

Yours very truly,

Tuesou Cola,

EC/RCC

Colamoter - Portmet

PRINCETON UNIVERSITY

PRESIDENT'S ROOM

ny.

May 17th, 1916.

My dout to to the Bagar was due to the whody post of the original priornal en of the Bayer

Mr. Everett Colby has informed no that you had some that you had some that formed in your mind concerning the financial standing of their monbors of the Frank Central Palson where the Allies Bernar is to Whon I was asked to undertake the Chairmanship of the New Jersey Booth at the Bazaar, I inquired particularly concerning the business arrangements, and Mr. Cecar Straus and Mf. Hemphill, President of the New York Guarantee and Trust Company, both assured me that the arrangement with them was a satisfactory one. ( The Basaar is to pay the Grand Central Palace 10% of the amount received, to cover rental of building, light, heat, the construction of booths, the carpenter work, the care of the building, the receiving and handling other of all merchandise which is to be sold, and all/overhead charges. Mr. Homphill seemed to think that the best arrangement was one in which there could be no possibility of the Bazaar losing by any possible financial irresponsibility on the part of the members of the Grand I am very desirous of securing your comperation. Central Paluce.

Faithfully yours,

Thomas A. Edison, Esq., Orange, N. J.

with warmest regards,

C. A. COFFIN THEOTY CHURCH STIRE NEW YORK

If they well give us 29 17, 1916/ cooth for 30 or to people icher its

Thomas A. Edison. Eaglings or hart alternated our Orango, H.J. as panyas or hart alternated our by dear Er. Edison: France text lang format from free in have unlacked from part into the position your

of a member of the executive countries of the Allies Marais, which is to be held in the Grand Central Felaco, New York.

It is hoped it can be made a great success, including as it does the work for and activities of the flank it gives with

Commission for Relief in Belgium,
National Allied Relief Committee, and Reference
War Relief Clearing House for France and Hor Allies.

I am interested in and working for all these organizations, as well as a half dozen others connected with this normals war.

My purpose in writing this is to ask if you out of the generosity of your soul, will contribute such thing or things to the basaar as are most characteristic of cour great work and supply a demonstrator therefor for the period from June 3rd, to June 14th inclusive.

All the members of the executive committee of the bazaar will greatly appreciate anything which you feel disposed to do.

Very truly yours,

My Vias Coffin, I would gladly Contribud Phonographs to best my theorem without the none in Bazzar meller to be more than an of ferral man and with however mounted to the other than as of ferral many a market my marks a west contribution less perulationing a market of Educary

C. A. COFFIN

May 18, 1916

10 C1 C/50

Thomas A. Edison, Esq., Orange, N.J.

Dear Mr. Edison:

Referring to my appeal of yesterday on behalf of the ALLIED BAZARR, I think I should tell you that it will be difficult to arrange for a separate room in the Grand Central Felnes, but every effort will be made to have anything you donate so placed as to make a demonstration of it practicable and attractive.

Very truly yours,

Mon Here just mertine in mesty

.

Mr. Edison:

Referring to Mr. Coffin's letter of the 17th and your notation thereon, I wish to call attention to his subsequent letter of the 18th. You will note from the latter that nequent sever or one tout, no will note from the latter W he anticipates difficulty in getting a separate room for us. I think, however, there would be no difficulty in putting up a booth, but the expense would be considerable and would probably have to be borne by us.

There is another important consideration involved. If we give them a phonograph or phonographs to be raffled off, we do something that we would not permit our dealers to do. As you know we are skitting on pretty thin ice when we demand that our dealers observe all of our rules and regulations in respect of price maintenance, and I believe we ought not to do enything ourselves that we will not permit them to do.

It is my opinion that it is inadvisable to demonstrate the instrument at this Bazaar:

let - The Edison, like the Mason & Hamlin and Steinway pisnos, is a little too fine a thing to be demonstrated satisfactorily in such a place.

2nd - The expense of demonstrating at Expositions is usually out of proportion to the benefits derived, and we have adopted the rule of declining to go into any Exposition as an exhibitor.

3rd - If we present a couple of Edison Phonographs to the Bazaar and permit them to raffle the instruments, we thereby do something that we will not permit our dealers to do and correspondingly weaken our position on price maintenance.

It appears to me that, everything considered, it would be better to send a check to the Bazzar for a reasonable amount than to make them a present of a couple Phonographa, and considering the fact that we probably can't get a suitable room for the demonstration unless we put up a booth ourselves. I don't believe that the advertising we would got from the demonstration at the Bazzar would be worth the expense. However, if after considering all of these points you nevertheless for that it is advisable to go shead, I shall get in touch with Mr. mascuid Coffin immediately.

WM-AH

COPY

C. A. Coffin

Thirty Church Street. New York.

File wife

May 23, 1916.

Thomas A. Edison, Esq., Orange, N. J.

Dear Mr. Edison:

I am now informed that, it having been decided to take an additional floor at the Grand Central Palace for the ALLIED BAZAAR, a room can be provided for the demonstration of your musical devices.

I therefore hope you may be constrained to make the contemplated donation with the understanding. of course, that the arrangements for its demonstration shall be satisfactory to you or your representative.

The bazaar management also inform me that it would be greatly appreciated if you could send an autograph letter somewhat in the following form:

> Allied Bazaar. New York.

this phonograph is my pursonal contribution to the allied gener, and hope it may be of some holds of the second to the second when the contribution to you and afford those to whom it or other phonographs may be awarded, pleasure and profit for many years. You have my congratulations and best wishes.

very truly yours, Thos a Educon

Mr. Edison:

Referring to the attached letter of the 2tth from Mr. Keeler, there is not the elightest legal reason why we should not sell instruments to the Mazaar at any price we see fit. If we decide to do so there are no formalities that need to be observed bowner in which the instruments will be disposed of at the Bazaar.

The objections to selling Edison Phonographs to the Bazaar at a discount are objections based on the Company's policies.

One source of strength that we have with our dealers is our rigid atherone to the one price policy in all of its aspects. We are credited by the trade with a greater sincerity in this respect than any of the other manufacturers. We take great pride in being able to say, and the requesting the say, that saids from our own employed sade but a licensed dealer saids from our own employed slace of the saids of the said of

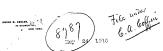
The second objection to letting the Bassar dispose of any corm iderable number or Kaisen behangurshe is that there will be a second or the second of the sec

dealer to raffle an Edison honograph, and if we promot ate raffle an Edison Phonograph, and if we promot the raffling of several Edison Phonograph by the Bezear, we perhaps somewhat weakon our position with such dealers as learn of our action.

WM-AH

maxion

## [ATTACHMENT/ENCLOSURE]



tribution of a phonograph to the inited because to be disposed of by televent to the inited because to be disposed of by televent by the consequence of the televent of which is location to the company of the configuration of the second of the following the best of the receiver between the configuration of the measurement of the measur tre benerit of the war surferers wone, of course, be method fully rector); so that your warder would be protected, and the Phonograph Coursen, would have the free advecting of the loader. Full March 18 or grow and in the occupe, and 1 must be first 11 you can odvice up, age 1/19 tomerrow morning, as time is thinked. Upon receif to flour renly, to will advice you so to whiching, anding demonstrature, etc. in connection with the dameted rachine.

Mr Wm. H. Meadoneroft.

ruly Burg,

PS-It is obvious that, by the mothod adopted in lling these, it is extremely probable that many more on one machine would be sold.

C.C. for Mr. Meadowcroft.

May 31, 1916.

Dr. John C. Libbon, Prostaunt, Primosten University, Primosten, J. J.

Doar Sir:

To note Lim. Majson's letter to you of long 20th, edwing that the writer would communicate with you in connection with the cupplying of an Adison Blotating Machine for the Allies Raman.

To boliary that we are noting properly in this matter to enough which Dieteling, due his with the Fhonograph which is being instelled this work in the Crund Central Palace, and if you have any further instructions to give the writer, we will be pleased to hear from your property.

Yours very truly.

THOMAS A. SDISON, INCORPORATED,

THIRD VICE PRESIDENT.



At the outbreak of the mar the Governors, the Staff, and the Students of the University of Coronic organized, 2 has heapital, under the direction of the Dominion Covernment, for service at the front, and which was placed at the disposal of the Allies, and which now is located at baloniki, in Oreseo, where it truts over 1300 soldiers daily.

when the Caradian history of this war is written, one of its most glorious pages will be the number of Caradian hospitule organized and sent from Canada, whose efficiency ard provision for the relief of the suffering and the comfort of the wounded soldiers has won the highest praise. On behalf of this work wa speal to you for help.

We appeal to you, because of that sympathy me believe you have in our work, and we feel assured that in addressing you mears addressing sympathatic friends and meighbors, and that your corporation through the instrumentality of our University, will be pleased of this opportunity of siding those who fall in battle.

Over 300,000 Canadians are on active service, and 3,000 graduates and students of our University have enlisted, and many of them, our honoured dead, sleep under the soil of Frence and Belgium.

The carries that our hospitals will render the wounded will depend on the resources which they command to meet the great expenditure incurred in maintaining an organization of this kind at the battle front with a view to further siding and suplementing their provious work in raising funds for this purpose, the Students' Administrative Council of the University will publish a special Illustrated addition of their college journal, "The Varsity", the full proceeds of which will go to the equipment and maintanence fund of our Caracian hospitals organized for service at the front and at home, and we hope through our present campaign to add 2100,000.00 to our Respital Pual.

Among the contributors will be Sir Robert Borden. Prime Minieter of Carada; President Falconer, University of Toronto; Sir Edmund Walker, President Canadian Bank of Commerce, Sir Frederick WilliamsTaylor, LL.D., General Manager Bank of Montreal, Professor Stephen Leacock, McGill University; and memy other men of international re-putation. It will contain the Honor holl of all University of Promoto graduates and under-praduates who have emlisted; photographs and biographies of those who have given their lives for the osuse; the graphies of the University of Toronto Base Hospital, and photographs of the Ambassadors of the Allies, at Washington.

THE VARSITY MAGAZINE SUPPLEMENT will be sold throughout Canada and the principal cities of Great Britain and United States. Our aim is to make it the most notable publication of the year. We beg to submit that you be good enough to authorize us to reserve for your corporation, four pages, which will be devoted to an illustrated your outpointion, four pages, which will be devoted to an industrated descriptive article on your plant, the consideration, or more properly speaking, the contribution, for which we leave to you. We might add, that the large subscriptions to our Hespital Pund range from [1000 to \$40,000. The bondinion Sank, College Street, Toronto, is the depository for our Funds.

Canada is your best customer, many of our people were your people, and many of your people are our people. For one hundred years peace has reigned between us. Canada had the privilege of contributing One Million, Five Hundred Thousand Dollars to the people of San Franches cisco. We now appeal to you, not for Canada, or her people, but for her fallen soldiers, who are fighting for the common cause of humanity.

A duly accredited representative of the University of Toronto will shortly visit New York, and we would esteem it a great favor if some member of your executive could give him a brief opportunity of presenting our cause, and in advance, on behalf of this great University, we bog to thank you for any favors, or any consideration you may extend to him.

We beg to remain.

Yours faithfully.

STUDENTS' ADMINISTRATIVE COUNCIL.

General Secretary and Treasurer of the Varsity Magazine Supplement Hospital Fund, University of Toronto,

Toronto, Canada.

CHARLES WHITING BAKER COTTON NEWS CONTRACT OF STATE I have trying in Many heap I raise funds for the Merch has leftour and me of my little plans his heen ment attraction :-Levim Ins made for me a fine autspresh book of tellam In Which I am asking Dimension Chifden and grown-ups" slow, to write them hume- (at 10 to lack) and then the book is the Rut (by permini) This Major King albert of Before, In Sien Huis little Payble, Morie for from the america Children I am bolly asking a few distinguished Men - like Juney - & come in

and Som the Children in This land lang from family the wind but he light mes I sud it one & Jus Time, at your come ? all of her Clegymen Fas liped\_ No. Hugh Black re; - las des fine Mr. William Confu and many Men white has famined father, & must in it and he that it is It hosting I the object wilness. Ex- Newdon't Tafte west Read Mors Older mil hips it; - had if beenes herst popular - light frammer Just storty! - I had a hig affair

CHARLES WHITING BAKES

EBITOR-IN-CHIEF, ENGINEERING NE ICE, HING BUILDING, TENTH AVE. AND NEW YORK m my heem, per welrand saysam) had he made in a that right. The west pfh alm was me forte altrading of the Belin and . \_ and is hade Revel address in 10 chin - & h lent, withthe Fork, as that he fittle exiled Omices may give of the boundary Belfun Children .\_ I have but that you Kind his wil him this Look and make in hen haffy: - Kindly tell pur Recenting When I may lead it over . -I repute to say that in the front of

the both is this bledge "The american Children, please Me Ingal desotion the Bruiples of Likely and pestice, for Which the Refin people has from them last full measure of dentin." I am hex any good anesen They ligh that? Parks or lay a letter, should his, and hit peat adminden I am, In friendly Mistelle Mula Daker Wer Charles Thitting Bakes)

021

Madocraft
(K. M. Path, 1916.

My dear Mr. Edison:-

I am trying in many ways to raise funds for the French and Belgian War orphans and wme of my little plans has been most attractive. Sorthner Sons' made for me a fine autograph book of vellum in which I am making American children and "grown-ups" also, to write their names a making American children and "grown-ups" also, to write their names the late that have been the service of the service of

I am boldly asking a for distinguished men, like yourself, to come in and join the children in this; - [ - and any of your family who wish to do so], will you be kind enough to sign our book - if I send it over to your home, at your convenience? All of we', Clergmen have signed, and Dr. Bugh Black &c: - Our dear friend hir. William Couper and many other artists have promised sketches, to insort in it, and many other artists have promised sketches, to insort in it, and many other artists have promised sketches, to insort in it, and and it seems most popular: - though it has only just started. I all a big affair on my lawn, (per enclosed program) and we made \$600.00 that hight. The autograph album was one of the structions of the Balgium tent, and to made several dollars in log pieces—to be sent collected to the homeless Balgium children.

- I sincerely trust that you, kind sir, will sign this book, and make us very happy kindly tell your Secretary when I may send it over.
  - I neglected to say that in the front of the book is this pledge.

"The American children, pledge our loyal devotion to the principles of Liberty and Justice for which the Belgium people have given their last full measure of devotion".

I am sure any good American may sign that.

Pardon my long letter, kind sir, and with great admiration, I am,

Very faithfully.

(signed) R. Wheeler Baker.

(Mrs. Charles Whiting Baker).

Jeanstation of the attended letter

Kindly New back
CHARITY page.

# AN ALLEGORY

WITH INTERLUDE DANCES

GIVEN

JUNE 9, 1916

OR THE BENEFIT

FRENCH AND BELGIAN ORPHANS

ON THE LAWN FERNHILL

RESIDENCE OF MES. CHARLES WHITING BAKES
JO SOUTH MOUNTAIN AVENUE
MONTCLAIR, N. J.

Produced under the personal direction of Mrs. Mary Hill-Brusen

CHAIRS DONATED BY

CONTRIBUTED BY MR. CHAS. ROOME COPER MONTCEAU

#### CAST

CHARLEY . WINDERD SCHEOUDER JUSTICE . . . . EDETH CHRISTIC PEACE . . . . . POLLY PLATT Love . . . . . Dogs Dixxixs VICTORY . . . ACSTS OF STEEDING FASTH. . . . ELIZABETH WISSON . . Been Stuart HONOR . . . . EDITH VAN CLEVE Hore.... TRUTH . . . CATHARING HODER Happiness . . . Agnis Vinnos KNOWLEBGE . . ELSE COMSTRUCK Joy . . . . . Lucia Garris

#### CHARITY: AN ALLEGORY

Written for the occasion by Mrs. Mary Hill-Brown

CHARITY spenks: "Oh children! Motherless, Fatherless-ye immeent victims of a utiless war-god! Rest here under my fostering care. Ye have come into the fairest of earth's dwelling-places -rich in loveliness, favoured in heroes-Sweet Land of Liberty, where clear-voiced Truth and Justice make their dwelling, and where, fed by Heaven's dew, Faith, Hope and Love blossom into fragrant flowers of golden fruitage. Ye who are draining the cup of misfortune, forget all griefs and troubles. Listen! the gathering music rises—the penetrating notes do seem to live and more, and lo! appeareth sweet Love, the Heaven-born! With her hand she brekons, and behold in circling flight cometh divine Faith and Hope to bear her company."

#### DANCE

LOVE, FAIRS, HOPE

Conserv speaks: "Look, on children, who cometh in radient beauty! Truth the unconquetable—within her heart a multitude of fenthered nightingales make music. Her votaries fling wide the doors to all her mysteries make mans. Aft rimates many the state of the

## DANCE

TRUTH, KNOWLEDGE, JUSTICE

CHARRY speaks:

Oth word of Truth-divine and deathless one, and with thy sister Justice, and all of ye who would deliver us from evil—oh help us now! proces, muon so ye was woma seriver us from evi-on neip us now! Numberless are they that perish; and on earth, east out oneitied, infants lie. Wires and mothers by every altat mourn. Call ye upon our Goddess Peace, Queen of our land-bid her lasten to this grace-we are in sore need of her most excellent conneil."

#### DANCE

CHARTY speaks)

"Oh Peace, through in the highest, thou who refuseth to remain without the hand-maiden, Honor, if indeed this thing is well pleasing to the blessed gods, call thou upon the deathless one, the gray-cycl goddess Athene. Entrent her to send unto us her winged messenger Victory-Victory swift as the breath of the wind -so that thou mayest return and Victory swar as one bream in the min. —— and the state of the remain with the those brightnessed playmanes, thy best beloved children, Joy and Happiness. Victory stall bring thre Honor to sing with enhancing fame thy glotion: reign. Oh Victory, with horrying feet, wind-swift -come-come-

#### DANCE VICTORY with HONOR

Peace with Harrises and Joy

CHARITY speaks:

"Oh children of trouble and sorrow, now shalt thy gricfs be turned into Joy and Happiness. The dawn of Peace bath appeared rosy-flamed with the promise of a new day. Peace and Prosperity shall reign. Under the lovely shining of the fair-faced Moon let all the land ring with song and festal mitth. Love, thou shalt lead the way!

FINALE

## PATRONESSES

Miss, Mieurs, M., Le Boss
Miss, W. I., L. Anaus
Miss, Bloom Marson

Miss, Boan Bacor
Miss, I. Lararon
Miss, I. V. Lararon
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July 12th. 1916.

Mr. Collier C. Grant, General Sconvtery and Treasurer of the Varnity Legatine Supplement Hospital Fund, University of Coronto, Toronto, Canada.

Dear Sir:

Your favor of the 23rd ultime has been handed to me, and I have given its contents careful attention.

An advertisement such as you suggest would conflict very seriously with some very elaborate advertising plans which were decided upon several months ago, and which are now being carried out. I shall, therefore, have to ask you to excuse me from entering into the advertising feature, but instead I should prefer to send my personal check for 2100.00 for the fund, instead of giving the advertisement.

If this is agreeable, please advice me as to where I shall send the check.

Yours very truly,

29 " Rug wa 1 1914 OFFICE OF THE PRESIDENT Day that I will lest Wen ford You should try Dwab a also Pear Mr. Estison, will do you amount for an interest A month both have recently the two Duporita both have sercenth in the Arassachusells Institute of certify made Hullions on Tealmold School founded & much med on belief in held worth, "an wish behing without more about a grant but the wind of your but the state of th to apply sich life knowledge to produce affice. old quekes henry beam and party outerward. it has moved to a new site and is just now en truit who a spanish new plant on the hanks of the Charles. I has a angre apportunity for service, owing to the economic andihar of the country + the absolute newsily for an adequate supply of property hained were Inthe development of our industries. hill its read of pash achievements there can, I think, I no doubt this is will rise to the opportunit, it only it is not cramped though both of funds. I am writing to hell you of the Sustitute's

Seal Harlon



circumstances, x to ask you for suggestion as hoposite sources of support, men who myst to ready to both an wishbir of so practical & receiped a kind. Meddless heavy Johnes to glad to held the water over with you as any him that might suit your commina.

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The 1 is any pre in to history of chemical advection. It is a great from a speciment in education." (Any a 1916 p. 110)

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METALLURGICAL AND CHEMICAL ENGINEERING

THE NEW MASSACHUSETTS INSTITUTE OF TECHNOLOGY

# A School of Chemical Engineering Practice BY WILLIAM R. WALKER

In the address delivered by President Machaurin at the dedication of the new boildings of the Massachusetts institute of Technology, published in full in the July 1 issue of this pournel, be stated, "This—the adquate supply of properly trained men—is the cardinal detertion of industrial preparedness recognized by thinking men to-day as one of the greatest necessities of the

While there will always exist some difference of opinion as to what constitutes a properly prepared man, there are certain qualifications with which much be selected, and the selected and the selected for the s

While it is true that the resourcefulness in applying heory to practice, the training in the solution of indus trial problems, the general business perspective, and self-reliance, which in time complete the man's education and make him a creative engineer is obtained in its entirety only by years of experience, there is much which engineering schools have accomplished to render more quickly available the scientific education of the embryonic engineer. Without well equipped mechanical and electrical laboratories it would be a long and difficult step to pass from the small apparatus and light load of a physics laboratory to the heavy responsibilities of a power plant. But in operating and testing the commercial-sized units with which mechanical engineering laboratories are readily equipped, a measure of selfconfidence and an appreciation of responsibility are obconnence and an appreciation of republishment at tained not otherwise possible. In addition to all this, the student translates for himself the fundamental principles of physics as exemplified in the laboratory into the application of these same principles in units and esses of commercial size and value.

But such facilities have to a very limited extent been available for instruction in chemical engineering. The

important and of Agents controlling difficulties inherent scale are not preschi when this same process is conducted in a chemical laboratory. To duplicate the ap-paratus which has been designed and built for factory operation is possible, and in many cases well worth while. But in order to study its performance the apparatus must be operated-a process for which it was designed must be carried out. This procedure is obvionely expensive and at best limited in its scope. A student cannot acquire the self-reliance necessary to operate a high-pressure digester holding 25,000 gallons of acid by experimenting upon one of a few liters capacity. He cannot learn how to meet difficulties incident to handling a filter press, an electric furnace, a multiple effect evaporator, a rotary kiin, and so on, if he has access only to such apparatus as the laboratory can provide. That experience which means power to execute comes only from contact with commercial sized apparatus operating under the conditions imposed by

Neither can the student obtain that training in the oplication of the principles of science to the problems of chemical industry on which successful industrial research so largely depends, without an opportunity to live with chemical processes which are being conducted on a large scale. It is true that the research chemist must be able to visualize the hitherto unaccomplished fact, but on the other hand, the undreamed accomplishments of the future, while using methods and equipment now unrealized, will also undoubtedly to a large extent employ the apparatus and the processes of to-day, although along new and varied lines. A familiarity with what does and does not succeed in present practice is the best foundation for that soundness of judgment so essential in every research worker, and most especially in those who are to direct and guide the activities of our industrial research laboratories.

In view of the impossibility of developing the type of engineer outlined without greater breadth of method and of contact thus is possible in our educational institutions alone, it is generally recognised that the indisact that without their co-operation educational accomplishment must remain imperfect. On the other hand, no satisfactory scheme involving industrial co-operation with educational institutions has historic loses prevailed the control of the control of the control of the scheme cannot has represent an educational advance of the first order. Within the last few years a comprehensive plan of great promise for the more adequate training of chemiical engineers along these lines has been originated and comprehensive and the second of the control of the comprehensive from the comprehensive from the control, the comprehensive from the comprehensive from stry. The plan has been enclusivelized adopted, and the institute and certain selected manufacturing organizations in representative industries. It involves radical changes in the institute curriculum for chemical engitient of the comprehensive from the comprehensive from the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comtrol of the comprehensive from the comprehensive from the comprehensive from the comprehensive from the

As Mr. Little points out in his report to the Corporation of the Institute, "any chemical process on whatever scale conducted may be resolved into a co-ordinated enries of what may be termed unit actions, as pulverizing, mixing, heating, roasting, absorbing, condensing, lixiviating, precipitating, crystallizing, filtering, dis-solving, electrolyzing, and so on. The principles underlying each of these unit actions are the same, however different the materials operated upon may be. Thus in a gas absorbing system, the laws of counter current absorbtion which control the queen of an am scrubber do not differ from the ce involved in n sulfite digester acid. The number of these train units operations is not very beautiful to the control of the c are involved in any particular process. The complexity of chemical engineering results from the variety of conditions as to temperature, pressure, concentration, etc., under which the unit actions must be carried out in different processes, and from the limitations, as to materials and construction and design of apparatus, imposed by the physical and chemical character of the reacting substances. It is possible to so select a relatively few industries that there will be represented by them all of the important unit actions of chemical industry

Experience has shown that when proper provision is made the performance of a piece of apparatus may be studied without materially interfering with its output. The properties of the properties

- A first-hand knowledge of the machines with which
  the plant is equipped, operating under conditions inposed by practice, the processes involved being considered as unit actions, the factors which control their
  efficient performance, and a queneral knowledge of the
  cost of chemical appuratus in its relation to cost of
  installation and operation.
- A study of the unit operations of the plant and the process which is being curried on, as examples of the application of the principles of science to industry, their interpretation in terms of physics, chemistry and mechanics.
   A general knowledge of modern methods of factory
- management and control, obtaining thereby some familiarity with the problems presented by the human element in industry.

  4. The education which comes from taking part in the world of the plant; in acquiring some degree of self-
- The education which comes from taking part in the work of the plant; in acquiring some degree of solfconfidence in handling industrial processes and largesized convertes.
  - To carry into execution Mr. Little's idea, a School of

Chemical Engineering Practice has been organized, which will increase in scope as experience is acquired. For the present it consists of five stations selected to farmish opportunity in specific fields of invasides general importunes in chemical engineering control of the room and conference room, and will be provided with a projection lantern, such special library, drawings, and models as may be needed. It will be in charge of a director, who will be a member of the lasticity faculty. Company, Ranger, M. Here will be statisfed:

1. That most important application of the principles of electrochemistry to reactions stating place in solution, namely, the decomposition of common sail, with the formation of hydrogen, causite solo and elaborine. The multiple effect evaporation with separation of a crystaline precipitate, caustie soda purification and concentration; absorbtion of gas of low puriful pressure; agittation of both beavey and light inpuls, and sedimentalis, and estimated.

 The manufacture of blenched spruce pulp by the sulfite process. This is a high pressure-temperature reaction under careful analytical control, which involves most interesting equilibria.

3. The manufacture of puplar pulp by the soda process. In this process a study of the losses of some through the cycle of operations is a most instructive one. It involves precipitation, sedimentation, fifter press separation, systematic listiviation and washing, and a determination of the soda lost in furnace flue gases by the Cottrell electrostatic separation principles.

4. The boiling, bleaching, and beating of rags for paper stock, and the manufacture of bond and ledger paper. This is both beater and tub sized, and is partly drum and partly loft dried. The opportunities for chemical engineering study here are obvious.

Station B. Located at Everett, Mass, with the New Enginal Gas & Coke Company, Without going into detail, the opportunities here offered are readily appreciated. The company operators are adult appreciated. The company operators are adult appretional to the company operators are adult appreiated by the company of the company of the comident to the receivery of maphthalens, hencal, tokud, inamnonia, etc. Every opportunity is here presented to study those high temperature reactions of furtingen with authors of the company of the comton of the company of the company of the company of the state of the company of the company of the company of the state of the company of the compa

potants of the state of Ningara Palls with the Carboundan Company. High temperature electrochemistry is here represented in all its phases. Powerful electric furnaces of both the resistance and net yleps are in operation, making a variety of products. The apparatus for pulverizing, with accurate separation, is here seen at its best, systems of sieving and sereening, hydraulic classifying, and puemmatic separation being in constant

operation.

Station D. Located at Stamford, Conn., with the
American Synthetic Color Company. At this plant will
be studied the chemical engineering of organic chemistry. Fractional distillation, sulfountion, alkali fusion,
mitration, reduction, crystallization, with all the necessary apparatus, are but a few of the operations here

Station E. Located near Allentown, Pa., with the Athas Portland Coment Company. Large scale operations involving crushing and grinding in many types of machines are here offered. The chemistry of combustion and furnace control is nowhere studied to better advantage than in the mammoth kilns of this plant.

To obtain the greatest good from such splendid opportunities it is clear that this school must be a part of a consecutive and consistent course of study. Not only must an adequate scientific foundation be laid before undertaking this chemical engineering practice, but provision must be made for taking advantage of the directness of purpose and enthusiasm for further scientific study which the factory work will create. This is accomplished by providing a Master's course in chemical engineering of five years' duration, including

the entire summer between the fourth and fifth years. The first three years are identical with those of the four-year Bachelor's course in chemical engineering as now offered at the Institute. At the end of the third year the student will elect either to finish the regular course of four years, receiving therefor the Bachelor's degree, or to spend two years and the intervening summer in study and receive both the Bachelor's and Master's degrees. From those students who elect this Master's course, including the school of chemical engineering practice, the faculty will select those whose attainments and character as shown by their previous record of scholarship and by other information are such as to indicate that the course can be creditably pursued.

At the beginning of the fourth year the men so so lected will be divided into five groups, and one group sent to each of the five stations for a period of six weeks. (Experience may prove that this is too short a time to accomplish the greatest good.) At the end of each six-week interval the groups will change stations, so that by Sept. I each group will have occupied each station. After from three to four weeks' vacation these men will all return to the Institute for the fifth year of advanced work, graduating the following June.

It must be kept in mind that the students going out into these various industries do not go as employees of the industry, but as students in the school of chemical engineering practice. It is intended that the work in the plant shall be wholly educational, and the men are to be under the control and direction, not of the plant organization but of the director of the station, a memof the educational staff of the Institute.

While it is intended to give the men as much indus-trial experience as possible, having them take shifts in the ordinary routine of the factory, such work will be directed throughout to secure the maximum educational result, and the interpretation of the experiences and results of work in the plant will be accomplished by conference and drawing room exercises, which will take up no small fraction of the time spent in each It is expected in this way to avoid the weakness and inefficiency of previous schemes of co-operation by making no attempt whatever to have the student an economic asset to the industry, but planning his whole activity for its educational return to the student himself.

To secure this high educational efficiency from the contact of the student with the industry, it will be noted that the student has completed substantially the equiva-lent of a four-years' course in chemical engineering before entering upon the school of practice. This will make possible the full appreciation of the significance of every fact and the interpretation of every experience in the light of fundamental principles.

The work of the fifth year is advanced in character, broad in scope, and almost wholly elective, the purpose being to take advantage of the student's enthusiasm and to allow him to specialize in the line in which he has found by experience that he has the greatest aptitude and interest.

But the plan is a co-operative one, and while it is confidently expected that in the work carried on by these students entirely for its educational value, there will result an accumulation of data, much of which will

be of service to the industry concerned, yet this prospective return is not figured as an asset to the plan. As a return for the use of the factory as a chemical engineering laboratory the Institute proposes to establish and direct for each company concerned a research orcanization devoted entirely to the solution of its individual problems. While a laboratory will be maintained at each station, the extensive research facilities of the Institute will be available for work of a special character, and the faculty of the Institute will function as a consulting staff.

The earning power of industrial research is now too firmly established to require any argument to demonstrate the possibilities for co-operative service which the plan possesses. It is earnestly hoped that in it may be found an effective method by which science may be more closely linked to industry for the lasting benefit of cuch

#### Hygroscopic Properties of Sodium, Potassium and Ammonium Nitrates, Potassium Chlorate and Mercury Fulminate

BY GUY B. ANYLOR AND W. C. COPE

One of the very proportant properties of substances used in explosive manufacture is that of behavior to-ward moisture. Thorough drying of many of the ingredients of explosives is required before mixing and many explosives must be packed in moisture-proof containers to prevent subsequent moisture absorption from

the air.

The following experiments were undertaken by the Bureau of Mines in connection with studies of detonators (blasting caps) as the failure of a detonator is often a serious matter, and many failures are attributed to wet composition in the detonator charge recise information was sought regarding the conditions under which the mercury fulminate-potassium chlorate mixtures generally used in detonators would take up moisture from the air, and the rate at which it was absorbed. The salts sodium, potassium, and ammonium nitrates, are much used in explosives and were included in the studies, the methods of which are

given below. The behavior of soluble salts, not forming crystalline hydrates, toward atmospheric moisture follows very simple laws. If the partial pressure of the water va-por in the air exceeds the vapor pressure of the saturated solution of the salt, then the salt will take up moisture; if the partial pressure of water vapor in the air is less than the vapor pressure of the saturated solution no moisture will be taken up by the salt, but it will lose water to the air. If the two pressures are equal then conflibrium occurs, and there is no exchange of moisture between the sait and the atmosphere. It should be noted, however, that this state of equilibrium does not correspond with any definite water content of the pure salt. Since the vapor pressure of pure water is always greater than that of any aqueous solution, it is evident that any substance containing a soluble co stituent can never be in equilibrium with an atmosphere saturated with water vapor.

Observations concerning the absorption of atmospheric moisture have been made by various investiga-tors: fertilizer materials by Brownlee', soils by Lipman and Sharp, and black powder by Kullgren. Studies on rate of absorption of moisture by sodium and ammonium nitrates, and explosives containing these salts

<sup>&#</sup>x27;ablished by permission of the Director of the Barcau of Mines.

Ag. Sci. 7, 388-1,

1-Phys. Chem. 15, 789-22,

ger. Schiess-Sprengeloffw-4, 364 and 385.

Edison, Til. - Controlotors

THE CELLULOID COMPANY and MASSIMILATION PLACE

SERVY YOUR

DESCRIPTION

OR OPERATOR OF THE PROPERTY OF THE PRO

My Dear Uh. Edward week interested in 11

Nancing bearew rewell in territor in the perfect of bearing to be creeked at Washington 26, I feel that I caucan refer 26, I feel that I caucan refer 26, I feel that I caucan refer 26. I feel that I have in the hope that it wis eidere you to great so reveal of your reliable time as it reversing to give the accompanying letter the attention I think it deserves.

If this view a rejected for a ferroman contribution from your I vhace the trains from your I vhace the state to exercise to but as the beorgic rejected is only that your will, if your can are your way to so so, air har by a letter of interestion, a seek other way as you way see fit, to are interies with the Newry tond or that who reight have an opportunity of interesting him is the fragient, I hope you can see your way to do so air what appreciate the causing

With but regarde I aw

Very Survivy Lows

Thomas a. Esison Egr West Change 21. J.

The Warrington, 161 Madison Ave., New York City, Oct. 13, 1916.

My impression th demands upon the business co Thomas A. Edison, Esq.,

for donations for the dozens of red West Orange. Dear Mr. Edison:

Socition to sour the proplement

Llewellyn Park,

your consideration some of the data of the control of the co

Some years ago a gloup of men and women were impressed City of Washington no building with the fact that there was in the lettler of sufficient dignity and size to permit functions that have a national character to be carried on in a proper way. As the matter was discussed, plans for a goods washington Memorial Building gradually took shapken to you know washington was eager that our national city should be a center for that general diffusion of knowledge the promotion of which, he declared in He bequeathed his farewell address, to be of primary importance. canal bonds which had been given to him by the State of Virginia towards the endowment of a university in the District of Columbia, but these proved worthless.

In an appeal to Congress on the subject of such a university, Washington said of the essimilation of the principles. opinions and manners of our country, - "the more homogenous our

-2-

citizens can be made in these particulars, the greater will be the prospect of a permanent union."

It would seem therefore that a convention hall large enough to provide for great national and international assemblies would be a fulfillment of Washington's wish carried out along the line of present day needs. Congress has done its part in giving a square of land facing the Mall east of the New National Museum. The control and administration of the building is vested by Act of Congress in the Board of Regents of the Smithsonian Institute. The accepted design for the Memorial has been approved by the Photographs and ground plans of Commission of Fine Arts. In addition to the great the same accompany this letter. Auditorium dedicated to the Signers of the Declaration of Independence and capable of secting 7,000 people, smaller halls and many rooms for permanent headquarters of scientific, educational, patriotic and literary societies, have been provided.

President Wilson has recently said: "We should wish to regard this as the one place where ideas worth while are exchanged and shared" - this was said in reference to the National Capital. The proposed serviceable Memorial to Washington would provide a suitable meeting place for such an exchange and sharing of views.

By Act of Congress the George Washington Memorial Association was given authority to collect funds. The same Act provided that the building must cost not less than two million dollars, one million of which must be in hand before the building operations are begun. About \$550,000 had alresdy been donated. Among the donors are Messrs. J. J. Hill, John A. Dix, J. B. Duke, Hiram Sibley, Edward Harkness and Mesdames John Hay, F. F. Thompson, Phoebe Hearst, R. D. Evans and William Bliss.

In order to hold the gift of land the Association must complete the first million before March, 1917. Therefore a special effort is being made at this time to arouse patriotic people to an appreciation of the value of the Memorial.

I appeal to you for your endorsement of the enterprise. Such an endorsement will mean more to those to whom we present the cause of the practical value of this timely undertaking than the endorsement of any other American.

If you find it possible to write a word which shell carry your approval of the plan, you will render a very great service to the Memorial. Should you also find it possible to commend the work to Mr. Henry Ford so that with your approval I may gain a hearing with that gootleman, that would be a much valued assistance. Perhaps I should tell you that my only interest personally is the satisfaction of doing my little toward this sational work.

I will askyou to have your reply directed to me at Hotel Cadillae, betreit, where I arrive on October 17th. Should you be interested in talking this matter over I shall be most happy to return to New York, but I trust that my statement, necessarily a long one, may find favor with you.

With great esteem, believe me, my dear Mr. Edison,

(Mrs. A.J. George) Very truly yours,

### THE CELLULOID COMPANY 30-36 WASHINGTON PLACE NEW YORK

PRESIDENT'S OFFICE MARSHALL C. LEPPERTS

PARSIDEST

October 26th, 1916.

Er. Thomas A. Edison,

Orange, N. J.

Ly dear Lr. Edison:

Your favor of the 24th instant enclosing copy of letter written to hare. A. J. Goorge to hand.

I cannot but help my see with the position you have taken in this matter, as I have been compelled myself to decline subscriptions for many purposes which I would have concruded liked to have made on account of the calls made to help the suffering abread and it seems to take precedence ever everything else.

I had hoped however that phentbly ur. Ford with his suppracundance of wealth might fool that he could add this project for a George Washington Memorial Building to his list of things in which he was interested, particularly as they have only a limited time in Er. Thomas A. Edison.

which to raise the amount of money required in order to take advantage of the offer made by Congress of the land, etc. for the purpose.

Thanking you for your interest and the courtesy of your answer enclosing a copy of letter to are. George, 1 am,

Very sincerely,

UL G. Locato

Edison, T.A. - Persma

Mp bring

Hotel Blackstone, Chicago, Ill. Oct. 30, 1916.

Thomas A. Edison, Esq., West Orange, N. J.

Hy dear Mr. Edison:

Your esteemed favor of October 24. is at hand. I appreciate your statement and I should not again write you, did I not fear that you have entirely misunderstood my request.

It is not at all the wish of its trustees to have the Goorgo Teachington Lomerial built at the expense of the world-wide relief work, the Sad Gross Societies or any other of the meritations shartings which present their description of the section of the section

The fact is that in order to bind the pladge of land given by Concress for years goo. The first million must be in mand by March mext; about four hundred thousand dollars of this mount is already paid in . If the balance could be assured, the building to the angue of Industrial Peace and will undorstanding between the mations could be undertoken at once.

Because of the nocessity for prompt aution, i had hoped to interest Mr. Yord who could easily make this work possible, and quite in accord with your own views, it would not be necessary to go to the sublic in a general way for subscriptions when, as you say, they are overburdened with requests from all quarters.

Furthermore, it is my understanding that, quite independent of charities which Ly. Ford may recognize and favor, he is ready to give liberally to such undertukings as the Lecorial, if he can be convinced of the integrity of the project and of its Wational usefulness.

May I again express the hope that you may be "illing to commend the project? This commendation would furnish me with the means of reaching and interesting it. Ford, undoubtedly to the extent or investigating; for he certainly could not full after investigation to recognize the wide usefulness of such

a Kemorial as is proposed. I apologize for the second accept to you but the importance of the Kemorial as an immediate undertaking urges me on.

Believe me. my dear Dr. Edison, with most sincere regards,

Very truly yours,

(Mrs. A.J. George).

Heore adden as drove.

36 WALL STREET

NEW YORK, Lec. 12 1916

Chemna C. Coluson,

A CALL STATE TO YOUR
CONTRIBUTION OF S TO HELP
GEFRAY THE GURRENT EXPENSES OF THE
NEW YORK EYE A EAR INFIRMARY AND IN
THE BEHALF THANK YOU FOR YOUR GIFT
AND INTEREST IN 178 WELFARE.

LUUS LUUS

Jos Brigaroud Road 314

To Man Thomas a Little Manager, N. J.

The Thomas a Little Manager of Joseph Manager of Manager

### Edison General File Series 1916. Chemicals (E-16-16)

These folders contain correspondence and other documents relating to the expansion, consolidation, and reorganization of Edison's personally owned organic chemical businesses in 1916. Included are litems pertaining the addition of new product lines such as para-emidophenol (used in dying and photograph developing); sales, contracts, and deliveries; customer complaints about the quality of the product, and plant design and operations. There are also references to increased chemical production by other companies, declining prices, the search for new phenol and toluol customers, and the decision to discontinue aniline production at the end of the year. Specific issues that received Edison's personal attention include the design of a new benzidine plant, widespread phenol discoloration due to faulty cans, the accumulation of unsold stocks of low-demand chemicals such as naphthaline and mybbane, the sale of folloul to foreign governments, and a contract dispute with Great Britain involving Herbert Lewis, John Fletcher Moulton, and Lord Northiciffe.

Also included are interoffice communications providing summary information regarding plant productivity, contracts for rew materials, the distribution of phenol and paraphenylenediamine to various customers, and the status of Edison's personal chemical plants. A few documents discuss more general issues such as labor conditions, environmental pollution, Edison's opinions about the future of the U.S. chemical industry, and his ideas on color dyes and chlorine products.

Most of the business correspondence was initially handled by Edison's personal assistant, William H. Meadowcroft. By the end of the year, most sales had been turned over to the newly formed Chemical Sales Division under the direction of Frederick D. Lockwood, while specialty products made in smaller volumes were sold in bulk to the American Oil & Supply Co. in Newark. Other Edison employees who appear as authors and recipients include chief engineer Miller Reese Hutchison, who also negotiated sales contracts in his own right; plant designer William H. Mason; H. H. Meno Kammerhoff, supervisor of operations at Edisors chemical plants in Silver Lake, New Jersey; plant managers Wilfred S. Dowling and James T. Phelan; experimenter Peter C. Christensen; and sales managers Archibald C. Emery and Frederick D. Lockwood.

Among the corporate correspondents are E. B. Badger & Sons., Binney & Smith Co., Dominion Iron & Steel Co., Lidu, , Du Pont de Nemours & Co., Eastman Kodak Co., Merck & Co., Mitsui & Co., J. P. Morgan & Co., E. R. Squibb & Sons, and Stein Hirsh & Co., as well as numerous firms in the textile and fur dyeing industries, which were major consumers of Edison's products. Other correspondents include benzol purchasing agent Clarence Dillon, aniline sales broker Stanley Doggett, Swiss chemist William Knecht, and Leutenant Commander H. Kimberty, powder inspector for the U.S. Navy.

Because Edison's secretaries glued carbon copies of replies to the original incoming correspondence, the items in these folders are not in exact chronological order. Some of the letters may be difficult to read because of the dark brown paper used for the carbons.

Approximately 15 percent of the documents have been selected. The selected documents reflect Edison's personal role in making business and technical decisions, setting overall strategy, and dealing with specific customer relations problems. The unselected material includes routine business correspondence handled by Meadowcroft; inquiries that received standard replies; routine items relating to orders, shipping, and delivery delays; credit checks on prospective customers; routine and unexecuted contracts; sales catalogs; chemical analysis reports; customer lists; multiple copies of form letters; and replies stating that Edison was away in Florida or on a camping trip. Also unselected are technical and business documents not handled by Edison personally such as complaints about product quality; reports on benzol plant operations from Claude H. Opdyke at Woodward, Alabama, and John Bacon, Jr. at Johnstown, Pennsylvania; technical notes on plant design and operations; and routine administrative records relating to the various Silver Lake plants. The numerous outgoing letters that duplicate the correspondence in the General Letterbook Series have not been selected.

Related material can be found in the Harry F. Miller File—Chemical Correspondence and Contracts (Legal Series) and in the Chemical Production Records (Special Collections Series).

Edison General File Series 1916. Chemicals (E-16-16) January

January 5: 1916.

Mr. Edison:

Please advise me if you will have any toluel for sale this year, and if so, what price you are asking for it.

H. R. HUTCHISON.

THE EDISON PORTLAND CEMENT COMPANY divibile

Thomas a Edison\_

STEWARTSVILLE, N. J. January 3, 1916.

Mr. Wm. H. Meadoworoft,

Edison Laboratory, Orange, N. J.

Dear Mr. Meadowcroft:-

I arranged with Mr. Edison on Friday

last me that Mr. Opdyke could come to us about Jan. 10th to 15th and I would appreciate it if you would make necessary arrangements to this end. The scener we get him

the better I will like it.

Youre very truly,

M Edward well mentioned be med well mentioned be med med mentioned by the mentioned by the

WORKS: SILVER LAKE, N. J.
MAIN OFFICE:
EDISON LABORATORY
ORANGE, N. J.

### PHENOL DIVISION THOMAS A. EDISON

Comercia.

SILVER LAKE. N. J., Jany. 4, 1916. ...

Mr. W. H. Meadowcroft,

Laboratory.

Dear Ur. Mendowcroft:-

Better order attents on Y suplace Welver as Y

Confirming telephone conversation of vesterious regarding the drums belonging to Mitsui & Co., we find the province of Confirming the we have 58 on hand. Of these we have used twenty as containers for residue from the filtering presses, twenty-six for steam mater, which are being used for that purpose repeatedly, land twelve which have not been used. Upon taking this matter up with purpose

Wery truly yours,

Wery truly yours,

M. Galvern Gelong Langer.

Missee and Many Langer.

Missee and Many Langer.

John Many Langer and Langer

January 4, 1916.

\$ 105,711.13

208,495.70

Mr. Thomas A. Edison.

Estimated Construction Cost To Date:

Aniline Division

Labor and Material

Phenol Division

Labor and Material

Woodward Benzol Plant

Labor and Material

75,080.14

\$ 389,285.97

WM.A.READ & CO.

NASSAU & CEDAR STREETS NEW YORK CHICAGO

CHICAGO
234 SOUTH LA SALLE STREET
PHILAGELPHIA
1421 CHESTNUT STREET
BOSTON
19 CONGRESS STREET

LONDON G AUSTIN FRIANS Moly

NEW YORK JENUARY 4,1916

Dear Mr. Edison:

gard to extending you's bensol contract to the end of this year. I have taken this matter up with my friends and they are yellous to take care of you if they and have not remember my of their contracts which have expired, it being heir intention to reserve all the bensol they can in order to be able to take care of you. They will not sell bensol to anyone without first giving you the compfrainty to huy.

Vou understand of course that they are building a plant to refine benzel, and this plant will use a large amount of their product, but not their entire production, and they now think they are going to be able to take eare qf you.

suggesting that they figure over their production and requirements to that we can give you an early answer. Then yow will have a definite ice, of what quantity on may expect from them. I hope to have an answer for you by

With kind personal regards, and best wishes for a happy and prosperous new Year, I am

Vorus trailer roome

Thomas A. Edison, Esq. Orange, H. J. Collec



# THE ARLINGTON COMPANY

COMBS, BRUSHES, MIRRORS, FANCY GOODS, SHEETING, COLLARS, CUFFS, LACQUE PYRALIN ----

725-727 BROADWAY

ACOMESA"PYRALIN" NEW YEAR FELEPAINE BEGO SPRING

NEW YORK, U.S.A.

Edison Laboratory, West Orange, January 4, 1916.

that we have

Gentlemen:-

trupposed you Just how the change of ownership of the Arlington Company is going to affect you is interesting. This change will be very much to your advantage.

The solution department which have up to

The solution department which has up to this time been supplying your Lacquer and Enamel needs is going to be operated by the DuPont Chemical Company at 120 Broadway, New York City. This means, that instead of having this business handled as a side line by a larger Company, it will be handled and conducted as a separate business; the whole undivided attention of its employees will be to satisfy you.

We would like to have you forward your correspondence to this new address and take up all matters pertaining to this department of the Arlington Business with us at this new address.

The orders which we have on hand will be given our immediate and best attention and shipment will be made the first part of this week.

180/0 lacquer when used as a Thinner will enable you to bring the cost of enamel down to an inter esting figure. Inquire about this lacquer at our new home.

THE ARLINGTON COMPANY.

ALLAN R. BROWN

Gentlemen:

August 16, 1915.

STRAUSS & HEDGES
IR BROADWAY
NEW YORK
TELEPHONES 2387 BROAD

6

CLAUDE S. HEDGES

Laboratory of Thomas A.Edison,

Thank there a day that we will Take their at min a Enter at 57/2

Orange, New Jersey

Attention of Mr.

ret what a her me in those were used to know when the Enwarded

We take pleasure in confirming herewith our telephone Discate New Go Cand Message to Mr. Mesdowcroft to the effect that the Board of Three General Appraisers has, under date of the 3d instant, sustained the correctness of your entered value of the bearol shipped through Rouses Foint and covered by entry No.A-773, thus overruling the appeal to re-responsisement of the Collector, releasing the car from seizure end also relieving you of the total amount of pen-

alties and additional duties incurred. This shipment covers car No.520 via Grand Trunk Railway entered at Rouser Foint on

As explained to your Mr. Meadowcroft, the grounds upon which we occured this favorable decision were applicable only to this particular shipment, and have no bearing upon later entries in which additions were made on entry. It developed at the herring through reports of the U.S.Consul end the U.S.Opecial Agent that the Dominion Iron & Steel Co. had been selling bensol in Canada at sixty cente per gallon on dates subsequent to August 16, 1915, and such sales prove the existence of a market in Canada at sixty cente per gallon. Whenever a foreign market exists, the law prescribes that duty must be assessed upon the usual wholesele price in such foreign market, and it consequently follows that your

subsequent shipments, made during the existence of the said Canadian

market, must pay duty on the basis of sixty cents.

As all subsequent shipments were duly protected on entry by Messra. F.W.Myers & Co., who made additions on entry to make the price equal 59-1/24, there will be no penaltice assessable upon these shipments, but the duty of 5% upon the difference between 59-1/24 and 25% per gellon (less freight, charges, etc.) cannot be recovered.

In fact we advise you against taking ony steps towerd such recovery, as we do not believe that you can be successful, because the peculiar facts relating to the seized shipment were applicable only to that shipment and have no bearing upon subsequent entries. We deem ourselves particularly fortunate in having bean cuccessful in your behalf on the respersionement case involving the seized our modelieve that it is dangerous for you to incur the expense of any further litigation.

In relation to your future shipments we advise you to continue entering at 59-1/2\$ per gallon until such time as you are edvised by the Dominion Iron & Steel Co. that they are selling in Canada at less than sixty cents a gallon. When such time arrives you would be justified in reducing your entered value to conform to the price at which the Dominion Iron & Steel Co. are then celling in Ganada.

We trust that we have made this matter sufficiently clear, but shall be gled to have you inquire further if there is any point upon which you require further enlightenment.

If you intend to accept the advice above given, kindly write to us so advising us, and authorizing us to abandon any other

# -3- Laboratory of Thomas A.Edison

appeals taken upon subsequent shipments.

Messrs. F.W. Lyers & Co. have arranged to secure the formal release from seizure and will in due course refund to you any deposit which they have been required to make in relation to this car.

We are more than pleased to have been of effective service to you, and enclose herewith our bill for services rendered.

JFS/McH

Encl:-

very truly yours, of the your

P.S. Referring to third paragraph on the second page of this letter, we beg to point out to you that this advice is applicable only in case the price at which the Dominion Iron & Steel Co. are calling in Canada does not rise above. sixty cents. In case the relationship of the property price. 00

price com get transery 4th, 1916

Dear Mr. Edison: - on 100 galo Jalual pource

When you first mentioned toluci, you spoke of the came.

Lecker with a feet comment of the comments of the com as available from 1st March; your last letter's 1st May. We would much prefer the earlier delivery, but are ready to consider toluch from May on. I think, however, you must name a price; I do not know what a contract of that kind would command. Can you not give me an idea?

With best wishes for the New Year,

Yours very truly,

Munuer

Thomas A. Edison, Esq.,

Orange, N. J.

6536

10 % Com

January 5th, 1916.

dr. Harmerhoff:

I enclosedherorith a latter from Mittai 2 Co., dated December Sist. You will see that they ask a number of questions to which Mr. Edison has partially replied by pencil memoradum. I notice he has not replied to the latter half of question #2.

In regard to the data asked for under question.

4, you will see that he thinks that this data has already been surgiced in your provious memorandum but if it ass not will you kindly send me the informationed called for by this question 4.

I note that these Japanese have done an injustice to youin the way of spelling your name, but I guess we shall have to everlook that.

W. H. MEADOWCROFT ..

Enclosure 6320.

Jan. 1th. 1916.

american Oil & Supply Co., & Lafayette Street, sewark, N. J.

Gentlemen:

Ractored borowith I bos to hand you original bill of lading covoring chipment of 274 bearels Baphthaline chipped to you from Loofnury. .la., on the 27th ultimo in cer it. L. -8-844038, the group which to being 57388 pounds and the not weight 48582 pounds.

For your information let me say that this Haphthaline will be billed to you not by us, but by Hitsui & Company, Ltd. You are probably amore that they are interested with us in the woodward Flant, and that so the billing.

. Yours very truly,

Assistant to Mr. Edison.

Enclosur 6313.

Jan. 5th. 1916.

.r. n. D. MacAsy, 13J rearl Street, New York City.

Bear Sir:

Your favor of the 17th ultimo to our Silver Lake Flant has been forwarded to this office. Correspondence on this subject should be addressed here to the Laboratory.

To would say for your information that we make Iron By-Hydrogen for the in our own storage battery, and as we have a little surplus empecity to offer come of it forente outside. We not no idea, however, that there was any regular demand for it from outside courses.

If you will navise up how much you would want to obtain each month for the remainder of the present your, Mr. Edison will condider an increase in his manufacturing capacity to take cure of a remachande quantity. Until further notice the grice will be as already enoted to you, but containers will be charged for extra.

Yours very truly.

Edison Laboratory.

Chemicals HSP Laboratory of Thomas A. Edison, Orange, New Jersey. Gentlemen: -Replying to yours of the 5th inst., we note what you say. Probably two to three thousand pounds monthly would answer all requirements. Yours very truly, BINNEY & SHITH CO. other teller pen CHAYONS Mr. eddons: We did not guete Medians: We did not guete Men direct - The guides of A. Madray 29 could be not be and to be not to them at some him to and he sold to them at some frient. (Grade B) Lee are consepondence attached. If we make new quotations, please remember Padeing Extra men kanner

# American Oil & Supply Co.

# Oils, Greases, Acids. Chemicals

52-54-56 Lafayette Street Newark.N.J.

January 6th, 1916

Thomas A.Edison,

Orange, N.J.

Gentlemen:-

Attention Mr. W.H. Meadowcroft.

Agreeable to your telephone request, we beg to state that our existing contracts with you on Carbolic Acid are those dated. June 19th, 1915 for 4000 los, per day from January let, 1916 to May let, 1916 at 65% per 1b. and those dated December 24th, 1915, one for 1000 lbs. per day for February, March and April 1916 at 85g per 1b, and another for 1500 lbs. per day from April 1st, to December 31st, 1916 at 72.6¢ per 1b. although on the latter one Mr. Hoffmann has since increased this by 400 lbs. per day, making 1900 lbs. in all, but you have not placed this form before us for signature although we understand it is made and binding.

> We trust this information is what you require. Yours very truly,

CRB/B.

DAVE HOENIGEERSER HARRY L. HOENIGSERSER

## HOENIGSBERGER

\*\*Perfection Brand\*\* Fur Robes

Baby Carriage and GO-Cart Robes MEN'S FUR AND FUR LINED COATS AUTO ROBES, FUR RUGS, ETC.

2-14-16 So. Market Street

January Sixth

Thomas A. Edison, Aniline Division, Orange, N. J.

Gentlemen:

Referring to the Paraphenylenedismine. Referring to the Paraphenylenediamine. 101 some use sample time ago and billed it to use title 00 a pound. We can use a quant this, but the price is too steep. Could deliver us 200 to 500 for for delivery by the first of February at 03.00 a pound and.

You probably are mears that there are other people gaing into the manufacture of this goods, but we wish to state to you, confidentially that they are not ready to make delivery for some little time and that they are acking (2.50 a pound for contract extending over one year's type.

We took this matter up with you before we took it up with any of else and received a personal letter from "r. Edison some months ago, co. co.

If you could deliver us any the above amount by the first of Pobrushy at the rate of \$3.00 a pound, we will probably be in position to take up to 1,000 pounds and delivery on the balance any time between more and july first. now and July first.

Awaiting your kind raply, we remain

acout much falor last a tis we have the self a tis we have Marchan 13

DH:PD

Dominio Edison: wondering whether Fron & Steel Company with that we have to pay on Benzol, contract they are to deliver the States duty free. There of February 18th (copy attached You will see from the first paragraph of this letter that you are to pay any additional duty over 5%. Imasmuch as the contract price is 25¢ and the duty by, I scarcely think that we can call upon the Dominion people to pay the duty on the advanced price of 59  $1/2\phi$ , which we been compelled to pay duty on by our Government MEADOWCHOFT.

Jan. 7th. 1916.

Mr. T. . Mallory, President, The Edison Portland Coment Co., Stewartsville, N. J.

Dear Mr. Mallory:

Your fever of the third instant in regard to ir. Opdyke was received, and we have arranged matters to that ir. Opdyke can get through at the Plant on the 18th instant.

I do not know when I have parted with a business associate so reluctantly as in this case. Mr. Opdyke is a peach to work and ditte to work with.

Yours very truly,

PLEASE REPLY TO SALES DEPARTMENT.

PATTON PAINT COMPANY

SOLE MAKERS PATTON'S SUN-PROOF PAINTS

MADE IN U. S. A. NEWARK, NEW JERSEY.

Jenuary 8

SUBJECT: PRICE ADVANCE #1 VAITE FIRE-

: THOMAS ADISON INC PILE

Thomas Edison, Inc., West Orange, H. J.

Gentlemen: -

Merial as above, waten we have in Referring to .. the past been supplying you on the basis of 28g per gel. in bols. delivered.

You no doubt, are thoroughly aware of the fact that the European War has had a serious effect upon the raw materiel merket, and that many commodities entering in to the manufacture of paint have advanced in cost. We, therefore, find our cost of producing material increased, and in view of the circumstances, it is necessary for us to advence our selling price on this to 30p per gal. in parrels, which price is effective insectively. We regret very much that this is necessary, but we have given you the benefit of our contract for just as long as it was been possible for us to do so, and we trust that you appreciate our position in the matter.

Trusting that we may continue to have the pleasure of supplying this material to you, and assuring you that the price will be revised as soon as conditions permit, we are

Yours very truly,

asmir

Sales Hanager

CR/S

think we dill use it on new test Weson to use it on new secondowned burned blog

E 180.N

January 10th. 1916.

Mr. Edison:

In regard to Mapathaline, we have pretty near a curloud at hoodward.

are you far enough along in your experiments to say whether you will want to have reserved for disc records, or chall I so shead and hell it to Mr. Hoffman, if we can got a good price?

EADOWCHOFT.

### LINERAL CHEMICAL COMPANY

25 BROAD STREET NEW YORK

January 10th.1916

Mr.W.H.Meadowcroft, Thomas A. Edison, Inc. Orange, h.J.

Dear Sir: -

We hand you herewith contract covering your year-outiness requirements over the latter part of this year. If this contract is draim in accordance with your views, kindly sign both copies and return to this office, whereupon we will affix our signature and send you one copy for your file.

Yours very truly,

This is the property of the same of the sa Mr. Edison: Ande the second ate me are week.

emclosures

Mr Edison Jon will see Med you have the option of discentining you plant at the girst year, or at any time therefor, but you do not have to give any notice.

So we are all night-for three years if you want to continue.

Jan 1/16

W. Edison V. Miller repealed on plant of the form of the formal of the formal of the formal of the formal of the order of

ch to Binney think, well you let them have 3000 to a month out of the 4000 to, or do you want to split it in Coleven them and Rosengarlen, t give moral a chemics?

Any 11/16 Mills, is chipping Reingarlan 1000 to tring

# [ATTACHMENT/ENCLOSURE]

| Mr. Edison: Mr Noter   |
|--|
| The frest I have marked  |
| with 3 parallel lines does not   |
| agree with the part similarly  |
| marked in allached memo,   |
| LI CHENSE DE LA CONTRACTOR DE LA CONTRAC |
| On the strength of this  |
| memo. I wrote them several   |
|  |
| days ago, bu copy letter allaches  |
| Measowerofi  |
| Measowerof   |
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#### [ATTACHMENT/ENCLOSURE]

Upu might say that what we wolle to out surpting Capacity over above what we need for the 25 tuning Battery that we 2 Stuning Battery

Mr. Edison: E Sturrege Water Please read the letter of Lower from the letter of Lower from the

Weightman-Rosengerten Company daysed Jamuary 22nd,
which refers to the lister I wrote to them on

Jenuary 20th, which is the next paper in this ville course to Cour

I was trying to divide it up between these people,
Binney & Emith, and Merck.
You will see Powers-Weightman-Resemperten

Company suggests that we give them the opportunity of handling the total production. as I understand it, you did not want to do this, but I thought you would like to see their letter as a matter of interest.

MEADOWCROFT.

www

A. Hoenigeberger, 12 So. Market Street, Chicago, Ill.

Gentlemen: '

heplying to your favor of the cixth instant in regard to the price of daraphenylenediamine, we beg to say that on account of the rapid rice in the price of acetic, and its secreity, we cannot undertake to sell Puraphenylenediamine at less than \$4.00 per round, epot cash. We have a number of customers who have been pering us more than this.

For cometime past we have been aware of the fact that other concerns are offering Peruphenylonediamine at as low as \$2.50 per pound, but we have our doubts as to their ability to make delivery, because of the scarcity and high price of acetic, which these concerns probably supposed they could get when they quoted such a low price.

So far us the quantity you mention is concerned, we could delivery two or three hundred pounds by the lat of February.

Yours very truly,

Edicon Laboratory.

...buc

Er Tuck:

Confirming our telephone convergation in regard to ir. Mallily's commissions, let me siete as follows. Ir. Mullely brought us three sustemers, namely, waldrich Sleuchery, amorican Printing Company, and a. Hollander & Sont. He is entitled to commissions as follows:

- Laidrich Bloachery. He is entitled to commission on the entire contract as we make chipments.
- 2. morricon Printing Company, ir. Wallely is cutified to commission on all antiles of a shipped under the old contract. We did not complete the old contract his year, so he is entitled to the salance which we carried over: So off this year is a curried over: So off this year is a very upon the new contract of 2,000 pounds a week to be shipped during the present year.
- A. Hollunder & Sons. Er. Mullely is entitled to commission on unitover aniline Calt you shipped to Hollunder up to December Slot, but is not outsided to commission on aniline aniline Solt shipped to Hollunder this year.

He is also entitled to commission on the first 500 pounds of Paraphonylenediamine shipped to Hollander, but is not entitled to any commission on any other Fraphonylenediamine beyond the first 500 pounds.

W. H. MEADOWCHOFT.

amin's love

January 11th. 1916.

Mr. Kammerhoff:

I enclose herewith copy of a latter from Lieut. Kimberly, the Haval Inspector of Fowder, East Coast.

You will notice that he has received instructions that inspection and test of Carbelia Acid manufactured by us for the Mary Department shall be made and carried out at put plant at Silver ake.

LE I did not understand whether or not this referred to the present auth that we have for shipment, I called up liout. Wimberly on the telephone, and after I was through talking with him dictated u memorandum so that I would not have to depend upon my memory. For your information I am one losing copy of memorandum herewith. You may keep all those papers.

I want to call your special attention to paragraph 2 of Lieut. Kimborly's letter, which concerns the arrangements that you and he made together. Will you kindly give your attention to this.

W. H. MEADOWCHOFT.

#### [ATTACHMENT/ENCLOSURE]

January 11th. 1916.

In reference to the attached letter of January 8th from Lieut. Kimberly in regard to inspection of Gurbolic Acid on contract #28283, I called up Lieut. Kimberly this noon on the telephone and asked him whether the instructions referred to in said letter of January 8th would apply to the batch of Carbolic which he saw at Silver Lake a few days ago, and of which samples were sent by his directions to Indian Head for Laboratory Test. Lieut. Exhmberly said that these new instructions in the letter of January 8th would, apply to that batch, but would apply to future shipments, and as to these future shipments, he would make the inspection tests in our laboratory at Silver Lake, instead of sending samples to Indian Head.

I asked Lieut. Kimberly whether the present delay in making shipment would cause us to be penalized by the Government. He said it would not, as the Government reckons the time from the date that samples are taken for inspection. For instance, if certain goods under contract were offered for inspection a day before the expiration of the contract, and samples were taken on that day and send, for instance, to Indian Head for test, the date of shipment would be held by the Government to be on that day, even if the results of the test at Indian Head should not be certified for two or three weeks thereafter.

W. H. MEADOWCROFT.

#### [ATTACHMENT/ENCLOSURE]

N. Ord. 91.

ADDRESS NAVAL INSPECTOR OF POWDER, EAST COAST



9 225-E

OFFICE OF NAVAL INSPECTOR OF POWDER, EAST COAST.

Jersey City, N.J.,

JAN -8 1916

Subject: Cont. #23233, carbolic acid, inspection of.

Reference: (a) Your letter to Chief of Bureau of Ordnance, dated Dec. 17, 1915.

Sir:-

- The Improtor of Powder for the East Const today received instructions that the inspection and test of the carbolic odd being manufactured by your Company, for the Navy Jepartment, should be made and carried out st your Works at Silver Lake, N.J., as per paragraph 4, Reference (s).
- arrangements with your Mr. Kamenhord for obtaining samples and detailed word to be sent to Indian Head for test and analysis. Most of those arrangements are of course now useless, and I request that you into the course of the sent to Indian Head for test and analysis. Most of those course in the sent of the sent that I suggest that of all the arrangements we made forether, he continue merely that of keeping a record of the batch or charge numbers and the drums in which they are packed for shipment, as this will realistate my selections samples for test and analysis.
- It is needless to say that inspections will be facilitated if I am informed several days in advance of the time when the material will be ready for inspection.

Respectfully,

Lieut.Comdr. U.S.Navy, Naval Inspector of Powder, E.C.

M.R. Hutchison, E.C., Ph., D. Chief Engineer to and Personal Representative of Mr. Thomas A. Edison.



IN HEPLY REPER TO DEPT. T.

HSP

Laboratory of Thomas A. Edison, Orange, N. J. TALC ITELIAN Attention of Mr. Meadowcroft. Gentlemen: -We have yours of the 10th inst. in regard to Cobalt Nickel Speiss and note what you say. We tryou may be able to use the material in some manner. We trust SOAPSTONE IROM BY-HYDROGEN: We notice something in the paper regarding fire at Silver Lake. Please advise if this will restrict the output of the Iron By-Hydrogen SOAP FILLER go we will know how to act on this, and greatly oblige. SILICATE OF ALUMINA Same HSP/DH GHOUND SILICA DESP CHALK TALC CHAYOUS TALC PENCILS SOAPSTONE NOLLING MILLS METAL WORKERS

#### WOODWARD IRON COMPANY WOODWARD, ALABAMA.

Wir good

A.HAVOODWARD CHAIRMA

The amount of Tolus depends up the Kind of Coal at our Cantria plant we solain

Mr. Thomas A. Edison, Orange. H. J.

Dear Sir:-

et la code as could recovering at its plant at Fairfield month of December these people day and shipped nore than 30,000 mallom of tolucionad due no the tolucion month. They are averaging 12,000 mallom get day of 11 liveral and all the tolucions are day of 11 liveral and all the tolucions are day of 11 liveral and all the tolucions are day of 11 liveral and all the tolucions are the tolucions and the tolucions are the to

running 50%. I got this infor is that and will ask you not to divide it trange

toluel from the bensel we As you are aware, we ure go would justify having some compotent men take this up immediately with a view to discovering

where our practice is bad.

With kindest regards, I am,

Yours truly

attwoodword.

Chairman .

Thom the Laboratory Constitute of Trom the Laboratory Constitute of Thomas A. Edison, Milarit Crange, NJ. Jan. 12th. 1916.

Mitsui & Company, Ltd., 25 Madison Avenue, New York City.

Attention of Mr. Shunzo Takaki.

Gentlemen:

Referring to your favor of the 31st ultime asking for certain figures and facts in regard to manufacturing Phenol. I enclose herevith a memorandum written by Mr. Kammerhoff which answers all the questions. As you will see, Mr. Edison himself answered some of them.

We have all been so busy here today that there is no time to make a copy of it, so will you please have a copy made and return this original to me.

Mr. Edison wishes you to regard all this information as very confidential.

Yours very truly,

Willearoweroff

Enclosure.

Jacomy out on Bridge

#### [ATTACHMENT/ENCLOSURE]

QUESTIONS FROM, AND ANSWERS TO LETTER FROM MITSUI & CO., LTD., DATED DECREBER 31ST, 1915.

Question 1. Yield of Phonol from Pure Benzol.

(a) Are we right to understand that all the figures montioned in your memorandum prepared bylir. Kamsorhoff are based on the yield of 5.3 pounds out of one gallon of Pure Benzol?

....

Answer From Mr. Edison: "Yes".

Question 1. (b) If so, how soon and how much do you expect to increase this yield?

(c) In case you succeed in increasing the yield of Phenol out of one gallon of Fure Benzol, do you oxpect that the cost of all chemicals enumerated in Mr. Kemmorhoff's statement will be the same?

Answer (b and c) From Mr. Dison: "Don't expect to increase yield if this process is used".

Question 2. When you Sulphonate Benzel we understand from Mr/ Kammerhoff's statement that you use 66 Benume Sulphuric Acid or Fuming Sulphuric Acid.

Answer. From Mr. Edison: "Yes, uso 98%".

Question 2. (b) Isn't there any difference in the yield of Phonol between the above mentioned acids?

Answer. This question is not quite clear to us. We refer to our state - ment of December 24th, 1915, where we said to Question O, undor 2, Outhwards Acid, that one opens of Bennol is mixed either with 2.5 pounds of 98% Sulphuric Acid, or with 1.6 pounds of Puing Acid.

This means that the Salphomating process can be carried out with a somewhat scaller amount of Pauring add than with the normal 98% Sulphurle Acid. The Sulphomating process, however, once finished, we have to deal in both cases with Bonzol Sulphomic Acid. of 6H 503 H - the following operations being the same, no matter whether we got bonzol Sulphomic Acid, the yield of Fure Phenol Vull be the same.

Question 3. We understead from Er. Kannerboff's attacement that you use 669 Secure Subplume loaded diluted to 1369 needfor (cravity for nontralization. In Agent we can key Chamber Acid memoly; 509 Secure Subplume to Acid very chamber Acid memoly; 509 Secure Subplume to Acid tentosed of 669 Subplume Acid, diluted to 1360 security for gravity?

#### [ATTACHMENT/ENCLOSURE]

From Mr. Edison: "You can use Chamber Acid just as well --the reason we don't, is because we can't get it".

In your plant which makes 7000 pounds of Phonol what quantity Question 4. of the following items do you use?

(a) Quantity of Coal.

We consume about six pounds of coal per one pound of Phenol. Answer

(b) Quantity of Steam. Question

We figure that one pound of coal burned in our boilers creates Answer eight pounds of steam, which would mean that we use 48 pounds

of steam per one pound of F. Thenol produced.

Question (c) Number of Working Men and Laborers.

Aside of a few foremen we employ simple laborers, the more Anewore intelligent ones of whom we teach to perform the different operations, the rest of the laborers acting as helpers.

> For an output of 7000 pounds of P. Phonol in 24 hours we have a force of 56 men at day time and 55 men at night time. includes three men at day and three men at night for the boiler plant, which is supplying steam for plants other than our Carbolic Acid Plant too; it also includes one man at day time and one man at night time for our power house, where we have a motor congrator set and air compressors running.

question (d) Quantity of current.

We consume about 0.4 M. W. Hours per one yound of P. Phonol. Angmar

(e) Quantity of water.

We consume about 5.5 cubic feet of water per one yound of Answer F. Phonol.

Question

Question

Anguar

Question (f) Amount of regaining expenses.

We figure as an average 1.75¢ for repairs per one pound of P. Phonol.

(g) General overhead charges.

The expenses are about 5.1g per one yound of P. Phenol, these costs comprising rent, depreciation, interest, freight, supplies (miscellaneous articles) payroll for handling of freight, insurance, and trucking.

( plant often 1)

Chemicals

dan dalah basi

General Chemical Company,

25 Broad Street,

ttention of ir. Peterkin. Non York City.

Gentlemen:

I be g so commonledge receive of your favor of the tenth instant, enclosing a contract covering our Eydroquinone requirements over the latter part of the present year. The contract in in accordance with our telephone understanding, and Mr. Editon has elimon both copies, which I return to you herowith. I understand that you will in one course return one for our lies.

Yours very truly.

assistant to Mr. Edison.

Conhacts

Jan. 13th. 1916.

principal rise of but most at almington, between knowing the principal rise of but most at almington, between knowing arrost to receive at the price and upon the term known provided for from most action of earth arms, low dereo, and the table about a fine of the cold in the cold about a fine of the cold in the cold about a fine of the cold in I he would be executed Company. Almost a fine and the cold in the col

ULLITY.

about mailty hearn at the re-olial, and to expect the foreign time to expect the foreign time to exceed the control of the con

: HERITTY.

To so the entire salpst of . 2. Coluol made at said sale and some lainst a domain on some lainst a domain on some lainst, excepted submitted sale sales and sales and

For the surpose of estimating the migrostrate quantity of c. 7. Adual ordered and to be in-life under this contract, unit added mercy states that his average production of c. . Tolook for coveral months part has greatered about one numbered forty (120) guilous for day.

#### ago two-

herefore, the not quentity offered to to be sayed to dudor this contract tetter and either to those to allow the tested to the t

PRICA. To be three deliere and neventy-five cente (\$3.76) per relien, F. J. B. Johnstorn, remmylvania; drum extra at 1.0. Johnstorn, censulvania; forturne to 0.46 Addion. Johnstorn, commylvania; in foor condition, redest eresid, tithin thaty (6)) days from date of printing on month.

DESIVALA: . To be delivered and accounted in carload lote as foom as practice blo efter production, community but, 1910 and outline april 3 tm, 1917, unless otherwise autum 12 arresd noon outroop service account

tink. hirty (b); dege, or love ly, within ten (lo) days from date of each chipmont, anoble in dow fork day funde, in dhicon thates rold or its equivalent in United States enrous.

COMBITIAN. It is mutually agreed that said Thomas a Edison shall not so liable for any adder in supplying or fellure to upply the results or any part theoretic contracted for results on any far war, flose atting, located, or the many shall be cause, or due to inspirity so obtain material.

(signed) Thos. .. Edison.

accepted.

a. 1. Du Font de Comours & Co.,

per J. h. Hilec, h. ...

January 14th. 1916. Carbolic

Mr. Edison:

The american Oil & Supply Co., have a contract with us for Carbolio acid, 1500 pounds a day, from april let to December Sist, at 72.6 cents per pound. Mr. Hoffman saked a few days ago if we would add 400 pounds a day to this contract, making 1900 pounds a day in all from april let to December Sist at 72.6 cents. I told him I would speak to you about it, and I thought that you would consent to do it.

I think it is quite safe to make this addition. Shall I cover by contract?

All right of you can man explanation of the

Mr. Edison: The following is the production and shipment the Johnstown Plant and Woodward Plant for the year 191 Pure Toluci. Purified Solvent Naph. 90% Benzol. Pure Benzol. 16234 28470 To be refined from stock on hand Jan. 1st, 1916. 6900 14350 42820 16234 Shipments to Jan. 1st, 1916. Purified Solvent Naphtha. Pure Benzol. Pure Toluol. 16,326 5,771 129,907 On hand Jan. 1st. 1916. 1,500 14.039 Estimated from stock. 22,000 4,300 22,126 Total 165,146

59432

26200

85632

W Ediate meant we shake

Silvor Lako, 2. J., Kinninghe Journ 14th, 1916. merhalf Let would

Re: DELIVERY OF HEMOL TO E. R. SUIBB & FONS

Since we got governl mouths ago the cobmolaint the

the Deniel had a strange small, we take their tracks of the time that a strange small, we take their tracks of the time to the time that are good to Squibb, a special among which we test if it languages, is regard to color, small and crystallising point. As in option of these promittions, the Pennel does not seem to satisfy Squibb, we intend to go still further, and filter the Phenel through an exceedingly fine brunse filter. In this way we hope to do away with mechanical dirt, the latter resulting, as far as we can find out, from very small particles, that are carried over from the recoviring tanks.

As to brownish or reddish color, we will try to be still more careful.

As to white sediment, we are at a less to understand what this means, as we never noticed it, nor can we find such a sediment in the numerous samele bettles we keep here in our laboratory.

Could we not ask Squibb to lot us have a small sample bottle showing the white sediment he is complaining of?

In order to recove any possibility of sending Squitb Shenol which does not satisfy them. I suggest proceeding as follows:

We keep in stock from now on ten 250-pound cans, enough for two weeks' supply, and sould a small sample bottle from every can to Squibb and have it tested. After receiving their note that the Phenoel is up to their standard, we make shipment. On the label of each bottle we will point out the number of the 250-pound can and the crystalizing point which we find by tostime in our laboratory.

M. KAMMERHOFF.

Silver Lake, H. J., January 14th, 1916.

Mr. Headowcroft.

#### Ro: RAW MATERIAL

As far as I understand, the question of supplying the rew material for the production of 7000 pounds of F. Rhenol per day has been fairly well settled. I can however, seemethat in doubt from where we have to get the different quantities and shigments, and how makes each consern has to supply per month. Inseemed as I have to constantly look out for new obligancies of rew material to see that they come in at the right time, I would appreciate it very much if you would kindly let me have the necessary information, also, if possible, with reference to the prior we have to gay. In order to facilitate this matter I give hereafter a brief statement of the quantities or materials needed, taking as normal daily production 7000 less of P. Fhemol, and as normal month histry days.

|                     | Per Day                    | Per Month                  |
|---------------------|----------------------------|----------------------------|
| Benzol              | 1,352 Gals., or 9,800 Lbs. | 40572 Gals. or 294000 lbs. |
| Sulphuric acid, 98% | 42,000 Lbs.                | 1,250,000 Lbs.             |
| Limestone           | 24,500 "                   | 735,000 Lbs.               |
| Soda Ash            | 5,250 "                    | 157,500 "                  |
| Caustic Soda        | 14,000 "                   | 420,000 ".                 |

M. KALEDMHOFF

Tiddewayier: Porthand, Genheng Comranny

MANUFACTURERS AMMUNI CARACITY



GENERAL OFFICES: CALVERT BUILDING, BALTIMORE, MD. WORKS: UNION BRIDGE, MARYLAND

Coble: TIDECO! A.B.C. 51 EDITION.

BALTIMORE, MARYLAND, U.S.A

January 14th, 1916.

Mr. Thos. A. Edison, & Edison Laboratories. West Orange, N.J.

Mr. Edison: --

Some days ago our special Lime . Representative, Mr. E. M. Sanborn, bad the pleasure of in LC Leac

requirements and requested us to forward you a five pound sample so that our material might be investigated and testificated. ed with a view to ascertaining whether or not it would be suitable for your purpose.

We are pleased to inform you

that under date of the 11th inst. an average sample of our light burned lime from stock was forwarded to you by prepaid express and we would greatly appreciate your being on the lookout for its arrival and giving same investigation at your earliest convenience. Would also be pleased to have the benefit of any information you care to give us as to results obtained by you in this investigation and test.

We are in position to serve you with as much of this material for shipment in bulk, carloads as you may require throughout the year and will be glad indeed to submit you a proposition on about 90 or 100 tons per month, which is the amount our representative stated would probably be needed by you.

Thanking you in advance for your

kind attention, we are,

Yours very truly

ELB-AHS

Jan. 15th. 1916.

ar. J. H. Plummer, President,
Dominion Iron & Steel Company,
Toronto, Ontario, Canada.

Dear Mr. Plummer:

Your favor of the 4th inctant in regard to Coluct use received in due course of med.) but I was unable to cameer it by sending you e quotation of price at to med. One negotiations on hand. It was uncertain me to whether these tould go through or not, so I have twited until tan time indecome to decide the matter one wa, or norther. The perfice with them I have been negotiating have availed themselves of the option end have taken all the Toluci I can supply for a year from imay on.

doing vory much better in repert to the Lighent of Sensol, and I want to thank you for your kind attention in the matter. There are one or two empty cert on the way buck to typing, and I hope they full great there on this. Is have been a little original one they are account of the one cert that the little are in the way the senson to the one cert that the little are in the little original of the ways soon. We have storage tanks and will enjoy it and sond it back to \$5000 within twenty-four hours often the unival.

tome .uthorities, I am poing to the the interty of usking that you will fesure intructions to your people to be very carefullatout the involvers on that an endow meant is made on the cumular involce of the market value in Canada. I think porture it will be well to be used to the control of the market value in Canada. I think porture it will be well to be used to be a second or the control of t

Streams & Hedges, the How York lawyers who fought through the United States Government's responsionant hore for me, and won two case, wrote to me statine they had learned that your Company sold Benzol in Canada to a company encared in the manufacture of explosives at a contract price of 60¢ per gullon to hold good during the continuation of the ser. If this is so, this of course establishes market value in Canada unless you should sell Benzol at a higher price to someone elec in Canada.

By t.o way, if you are not doing anything with your Haphthaline, I shall be glad to have a talk with you about it the

rage two-

next time you make a trip to new York. We are refining ours and getting a nice wrice for it.

Yours very truly,

### COPY.

#### P. .. MYERS & COMPANY.

Houses Point, Jan. 11th. 1916.

Ar. Thomas a. Edicon, Orange, A. J.

Sir:

and have also received a copy of your fever of the 10th inst.

Straums 5 deepes under else of Jour 1 letter to Mossim.

Straums 5 deepes under else of Jour 7th and hold of the most of the control of th

Dominion for i. S. tool Co. at Lontreal yearchies, but unfortunately in . Schumenton, the Concernit Libes agont, was at Uttawa, but in . Schumenton, the Concernit Libes agont, was at Uttawa, but in . Schourt stated that from Jones and the property of the Concernity of the Concerning of the Concerning of the Concernity, and he are promised to take the matter up with ill. Healeughton upon his return, and to advise me definitely on this tablect.

If there had been no sales of Bennol in Canada, no market value ame book and linked, therefore in arriving at a typic at which we should invoke the Bennol, we should take the solling price in her York, after making proper deductions in order to get the mail ne typic at Sydney.

future chipment to you, that they be particular to endower on the involving the you, that they be particular to endower on the involving the tablet while in Ganada, if such extete, if not, the price at which they are celliar Bench in the Junted Eutene co what we may be in a position to determine the croper larded price in the croper larded price.

tion to the control of the forthion from a tion to a typing and improve upon them be importance of involeing your chipment as above outlined, so that we say have call information as to market conditions and know at what price we chould enter the Sensel, and thus credit possible chance of a nationate in value by the local appraisor.

Yours very truly,

(migned) John L. Myers.

OURS & COMPANY

horas A. Edison,

Orange, N. J.

Pear Sir:-

Julier our file "y" July Mr. Mr. 1 Just been notified.

I have just been notified by our Mr.

penter, Jr., acting as agent for the E. I. du Pontide Co., that he has entered into contract with you fail the output of your Toluol plant at Johnstown, Penna., for the period from May 1st, 1916 to December 31st, 1916, at a minimum rate of 30 drums per month of 100 gal. each capacity, it being further understood that should your output exceed this quantity that will be delivered to us at the same price and terms as the inum quantity, less a quantity of 20 gal. per day, which I thate, stand you wish to reserve for the filling of other contracts, The quality of this material is to be C.P. Toluch and the price \$3.75 per gal. fo.b. Johnstown, Penna., shipment to be made in drums furnished by the seller and to be charged for extra with full credit allowed upon their return within a reasonable time.

If the foregoing is in accordance with your under atanding of the transaction, a statement from you to that effect will be sufficient to constitute a contract.

I would further request that if you have any additional supplies of Toluol, Benzol or Solvent Naphtha that you draw the same to our attention. vours very truly, C. 7

JPH/FE

Purchasing Agent

Jan. 17th. 1916.

Mr. A. H. woodward, Chairman, Woodward Iron Company, Woodward, Ala.

Dear Mr. Woodward:

I have received your favor of the lith instant in regard to the percentage of Toluch recovered by the Temossee Company at its Flant at Fairfield. Lot me say in reply that the quantity of Toluch recovered depends largely upon the kind of coal carbonized. At our plant at the Cambria Steel Lorks, Johnstown, Pa. we obtain 16% of Toluch with the same kind of exparatus that we use at coodward. It is easier there to get the Toluch than to get Benzol.

The whole trouble at modward is that the percentuge of voluol does not seem to be in the gas, and that may be due to either the coal or to the evens.

with kind regards, I remain,

Yours very truly,

Form 32A 1-10-16 1M

### ANILINE DIVISION THOMAS A. EDISON

SILVER LAKE, N. J.

Muller down 1916.

Appear to be deed with the formation of the control of the con

Mr. W. H. Feadowcroft,

Laboratory

Dear Mr. Meadowcroft:-

The Edison Chemical Works have, of late, been calling on us weekly, under what they term a "blanket order", for various amounts of caustic sods, and we delivered to them on Dec. 31st, 10 drums, Jan. 5th, 10 drums, Jan. 12th, 15 drums, and Jan. 17th, 10 drums. I was advised by Mr. Filler that he contemplated making a contract for the delivery of a car load of caustic soda per month, and inquired to know if we could supply them. This, I told him, would be impossible, and informed Mr. Miller that he should take the subject up with you, and I presume he has done no.

I wish you would instruct me as early as possible whether I shall continue to deliver weekly amounts of caustic sode to the Chemical Works as has been done heretofore, and what Fr. Miller's requirements are likely to be.

V. mian

Silver Lake, N. J., January 17th, 1916.

74.80

Mr . Meadoworoft.

#### Re: CHARGE OF BADGER PHENOL VACUUM STILL.

I have gone over the items contained in my report dated Oct.

lat. 1915, once more carefully, and get the following results:

The copper pipe serving new in place of the column and deficient

motor cost, according to bill received from Lewrence & Company, 991.20
Another bill from Lewrence for material and labor executs to 27.18
For a bronze gustime, and for three gate valves, we seem, according

For a bronse gasting and for three gate valves, we upont, according to bill from terrory dated only 31st, 1915,

For miscellaneous material we spent, according to List "a" 28,99
For labor hore in Silver Lake we paid 158,34

For labor here in Silver Lake we paid 155.34

Total amount 390.51

This is \$16.40 more than stated in my lotter of October 1st, 1918, the difference being due to the fact that at that time my statement was partly founded on calculations.

Mr Edward Is of all right to art this? In my letter of October lat is stated furthermore, that for the change of our Badger still a condensing coil is used, this coil being taken from the still in Mr. Edison's Phenol Plant. This condensor consists of a 3-inch pipe of 12 ft. length, which would cost at the present market price for corper, about 30.00, including copper tank. If you will add the cost for this condensing coil to the expenses montioned above you get a total assumt for changing coil to the expenses montioned above you get a total assumt for changing or our Badger still of VAIO.51.

There is no doubt that we did not spend more for the change of this still than is here stated.

I do not know the reason why more material and money has been spont to change the Badger still in Er. Edison's plant, as I have never soon that still.

и, каппериот

# VESTERN UNION

Carbolie

RECEIVED AND FRANCE. N. MENEROW SELVICE SHOOKS, VIENTAMENT OF THE SALMICE OF THIS YEAR

LETTER RECD WILL ACCEPT CONTRACT FOR H S P CAPATAL CAPACITY CAPACITY CAPACITY OF THE BALMICE OF THIS YEAR

BEGINNING WITH APRIL FIRST AT EIGHTY FIVE CENTS PER POUND.

JR WATKINS MED CO.

742PM

Jan. 18th. 1916.

· .

E. I. Du Pont de Hemours & Co., Wilmington, Dol.

### attention of Er. J. R. Biles. Purchasing agent.

#### Your file "H".

Door Sir:

We have received your favor of the 11th instant in regard to the Coluch from our Plant at Johnstonn, Fa., as to which Mr. Adison entered into contract with you through your Mr. a. f. Curpenter, dr. a few days ago.

he tore quet on the point of kending dom to you a control which we had propured to cover this transaction. This control take propured on in: Editon's understanding that the period to he covered that one year from iky lat, 1916. If this is incorrect, according to are tarpenter's understanding, so are of the contract.

To will enclose the form of contract hererth for your porment. If the neries covered by this contract is estimated to you, you can tipm the contract and return it, and we will have he bidden ein one copy and then it till be returned to you. The ld you desire to limit the veried of the contract from they can be accepted to the contract from the contract the contract of the contract from the contract the contract of the contract from the contract of the contra

Yours very truly,

assistant to Mr. Edison.

Enclosures.

Standard Essence Company,

15000 moreth

EUGENE SCHAEFER PROFEST EDWIN W PRESTON STATE BASE

\_ Maywood New Jerry, January 18, 1916.

Edison Storage Battery Company,

Crange, New Jersey.

Gentlemen:

#### Attention of Mr. Meadowcroft.

As we did not receive this morning the invoice covering shipment of five or ten drums of Nitro Benzol, we are uncertain whether you have entered us for the larger amount. We write now that you may be able to take the matter under consideration and we will telephone you tomorrow morning about ten o'clock for your reply.

We would also be glad to have you consider entering us for any quantity up to 50,000 pounds, and if you can book the order at what rate deliveries can be made.

Yours truly,

STANDARD ESSENCE COMPANY.

EWP..LP

6 m balic

Jan. 19th. 1916.

The J. ... atking Medical Co.,

.. inone, Minnecota.

#### Gentlemen:

Your telegram existing you accost contract for Crystal Carbolic seed to the extent of three hundred (300) round; per month from syril let to becomber slet, 1916 was received. To have prepared: contract in accordance theretith, and enclose the case in duplicate, siened by Mr. Edison.

to would call your special attention to the fact that the Efficient does not wish to rive an absolute reasonate that the Carbolic hold will comply strictly with all the U. 7. P. requirements. He believes, honever, that the quality is faily exact to the J. P. to are supplying it requirely to the Heyden Chemical torke, E. R. Squibbe & Font, Homento Chemical torke and others, and they are all ried to get it.

he are formarding by this mail, under sowersto cover, a summle of the material much as no are implying. You can defor signing the contract until you receive this sample and see thether or not it will undersy your requirements.

Yours very truly,

Enclosure.

TELEPHONE
HAROYER 8893

A. D. MACKAY
INDISTRIAL AND BARE MINERALS AND METALS

CABLE ADDRESS
"KAYMACK" NEW YORK
CODESS
WESTERN UNION
LISECH'S
A. D. CHIERD.

Chacasulas

RARE CHEMICALS

NEW YORK JAN 191916

W.H. Meadow croft Eog Orange N. J. (6632)

Draw Mr. Meadorocroft

Jour of the 15 the fund on

my return from a trip up in the toil is of

Pod. Bunkey & Suich an taking can of

me in the Matter of brokerag on troubly

Hydrogue. The gret to look that you man

o a do succe the ofice of out of the will show

nech of an advance if early better

Coming on the market

Sun woodering if you could take

my friend Mr Williams on for iocal

my freud M. Williams on fir Docal work in in Record Rept. he is a fine he as a fine he shall will all on the high tat four of he he he he he he found of the Sous of Ohio Banquet. To ould for can give his matter and four his matter.

— Town miles

asmackay

aniline

# E.R. SQUIBB & SONS, NEW YORK MANUFACTURING CREMISTS TO THE MEDICAL PROFESSION SINCE 1858

EXECUTIVE OFFICE

NEW YORK

January 19, 1916.

Mr. Thomas A. Edison, Thomas A. Edison Company, Orange, New Jersey.

would be most satisfactory to us.

Dear Mr. Edison:

We should like to take up the manufacture of Aniline Cil as a starting point for Aniline Dyes.

Would you be willing to give us your process of manufacture and if so on what terms?

We are of course also interested in Benzol, so if we could procure this product also through you it

Awaiting your good news, we remain,

Very truly yours,

THEODOS TOTOLOGY Mine

Vice President,

TW-ECH

E.R.SQUIBB & SONS.

We would estrouge et of drawings but where are you going to get a cide, + Benjal -

andin

January 21st. 1916.

Mr. Miller:

we have a contract with Mendel Samuel a Come for 1200 tone of Cast Iron Borings for the emiline Plant, to be delivered 100 tons per month, January to December 1916. These people have offered several deliveries but we refused them because they were not in accordance with sample upon which we made the contract. We have been having quite a fuse with them, and Mr. Edison thought that the matter would become involved in n lawsuit, but Mr. Samuel has been in today and we have thrashed the matter out. Mr. Edison has agreed to cancel the contract, and Lendel Samuel & Cons have agreed to pay \$5720. to get a release from the contract. Here is a check for the first payment of \$500. and they promise to send the remainder of it in the near future.

W. H. HEADOWCROFT.

to pay for 10000 Gaes. Buyon Junior 10 distillation - I this a chance to lung in a few days Keep those tour cors moving the wie weed our ourselves befor my loing. The wice instace the new kettle to- morow - I quese you thing it has been a long time getting it in but this is not the sails place is woe last year Every body & Every departured is so thusy they down know while way tune It is a fol getting any they down, Cund The are hang a vice rue of Bacan

# LUNHAM & MOORE

EXPORT FREIGHT BROKERS
FORWARDERS—THROUGH RATES
THROUGH BILLS OF LADING
MARINE AND FIRE INSURANCE
BILLS OF EXCHANGE BOUGHT AND SOLD
DARFER NECOTIATED AND COLLECTED
LIGHTERAGE—CARTAGE
CUSTOMS ENTRIES



N. Y. PRODUCE EXCHANGE N. Y. MARITIME EXCHANGE

CASLE ADDRESS "LUNHAM"
NEW YORK AND LONDON

WESTERN UNION; LIEBER'S; A. B. C

## FAST FREIGHT FOR EXPORT SHIPMENTS

RODUCE EXCHANGE

New York, Jan. 21, 1916.

The Thos. A. Edison Co., Orange,

day to not an expressive

New Jersey. Can't GE Exploded -

Gentlemen:

We are in receipt of your favor of the 20th Inst., advising us that we will receive a shipment of Paraphenylenediamine to be forwarded to the Lazard-Godchaux Co., Ltd., London.

Will you please advise us what the character of this material is? Is it in any way combustible or inflammable? If so, at what degree (able close test) inflame.

Our reason for making this inquiry is that the Steamship Company will not accept anything of a dangerous nature for transportation by their steamers.

WAH Is here of the property of the state of

LONDON OFFICE, 3 GREAT SAINT HELENS. GRAIN HANDLING BRANCH — BUFFALO, N. Y. .

and me monday of Yusea

Jan. 22n . 1946.

ir. Thousare Weicker, Vice President, E. A. Equibb & Sons, 78 Backman Street, Hew York City.

Bear Er. Weicker:

I am in receipt of your favor of the 19th intent in repart to your taking up the manufacture of amiliae fil as a starting point for amiliae type.

I should be willing to sell you a set of drunings for a plant for manufacturing anilino as we do it, but where are you going to get the acids and the lennel? If you have not provided for these amplies, I am afraid you will keep a mark time of it.

Yours very truly,

MUNITION MANUFACTURERS' ASSOCIATES 1019 FLATIRON BUILDING The Edisin Co. If w. Trindly state trice 70 of Luplan!



# E. B. Badger & Sons Co.

CONSTRUCTORS OF CHEMICAL APPARATUS OF COPPER, IRON, SILVER AND LEAD

DISTILLING AND RECTIFYING APPARATUS EVAPORATORS AND EXTRACTORS DRYERS, TANKS, KETTLES, COILS, ETG

63 - 75 PITTS STREET

BOSTON, MASS.

PLANTS AND APPARATUS FOR CHEMICAL INDUSTRIES CORRER EXPANSION JOINTS

Jan. 22, 1916.

Laboratory of Thomas A. Edison,

Gentlemen:

Orange, New Jersey.

We acknowledge receipt of your letter of the 19th inst. regarding expenditures on Carbolic Still.

We would appreciate receiving your report the clatencyl of conditions which necessitated these changes and of conditions which necessitated these changes and which would give us more detailed information of what these changes consisted of. This information would be of considerable assistance to us in arriving at our conclusions regarding these charges.

Trusting you can conveniently favor us with this data, we remain

Yours very truly,

E. B. BADGER & SONS COMPANY.

CHC-C



Telephone Melrose 104 372 & 374 East 162nd St.

stablished

AWNING HEAD-ROD SUPPORTERS. PERCY P. HOPP. PATENT Nos. (111916)

New York, Jun. 22, 191.6

Edison Chemical Co.,

Silverlake, N. J.

Gentlemen:

Will you kindly inform me, if it will be possible to purchase sodium phenolate from you and if so, the quality and composition of the intermediate for sale.

Hoping for an early reply, I remain

MR. MEADOWCEOFT

6749

San Walter of Control of the Control

Jan. 14th. 1916.

Lunham & Moore, Produce Exchange, New York City. Gentlemen:

Replying to your fevor of the Eletinstant in regard to the chimment of Parephonylenediamine to be forwarded to the Larard-Oodchaux Co., Ltd. London, we beg to advise that this material is not explosive, and gs no more influementle then oak wood. It is not regarded in any way as a dangerous material for transportation. Yours very truly,

Edison Laboratory.

# WESTERN UNION

DELVIDERE BROOKS, VICE-PRESIDENT

RGE W. E. ATKINS, VICE-PRESIDENT NEWCOMB GARLTON, PRESIDENT SEVEN ON. TIME FILED CHECK

January 24th. 1916.

Jhhn Bacon, Jr., % Edison Benzol Plant, Johnstown, Pa.

SEND the following Telegram, subject to the terms on back hereof, which are hereby agreed to

Replying your letter to Mason, Mr. Edison says he offers Cambria Company same price as before, namely sixty-four cents gallon for 10,000 gallons C. P. Benzol.

W. H. MEADOWCROFT.

4044

J. MERRITT MATTHEWS, PH. D. INSULTING CHEMIST TO THE TEXTILE INDUSTRIES CHEMISTS BUILDING SO EAST 4111 STREET

NEW YORK Day I make no January Jourth, days stieff Except 1916

Thomas A. Edison, Inc., Andrew Paraphonylancotramina Orange. N. J.

Gentlemen:-

9 donot know of Jany Gray Except Beckers

Various textile organizations, with which have been we associated in support of the Hill Bill to place a tariff on dyes so as to encourage their manufacture in this country, find their activities for momentar energy are contry issued report of Dr. Norton of the manufacture in the country for the first their activities for Department of Commerce. Dr. Norton states that there are now being Acce. Department of Commerce. Dr. Norion tates that there are now being manufactured in this country 15,000 tons of coal-tar dysetuffs out of a total normal consumption of 29,000 tons. This report has been given a total normal consumption of countries and gives the impression that large dysetuff plants making a wide range of coal-tar colors have been not in actual operation during the past year of out-war course are been not in actual operation during the past year and are already supplying over one-half of the needed amount of dyes in this country is the end of his report br. Norten expresses the operation of the report br. Norten expresses the optimization of the present that it is country, prescribedly all of our needed dyesturite with a country, presentably even under the present tariff conditions.

A proper tariff protection for the dyestuff industry here, and realing that you must be vitally interested in obtaining that you will acree with me that Dr. Horton's statements are greatly exacgorated and misleading, I am asking you to help me in opport to the various textile associations wit facts are to present dyestuff production in this matter; so that they one place to the downward of the production in this country before the Government and the People.

To this end I would ask you to kindly furnish me with a list of the dyestuffs you are at present manufacturing together with quantities of the same. In case you consider it inexpedient to furnish quantities or the same. In case you consider it inexpectent to turnish me with this detailed information. I would appreciate it even if you would furnish me with the different classes of dyes you are actually meanifacturing together with aggregate amounts of the same. Any information in this long-which you will furnish will be held absolutely confitted in the which you will furnish will be held absolutely confitwhich is a new time which you will turnish will be need associately confidential, as in my report only the total quantities of different classes of dysetuffs will be presented.

Trusting that you will recognize it to be to your best interests to cooperate with me in this matter and awaiting your prompt reply, I am,

J. m. mattheway

JMM: RGT

Jan. 25th. 1916.

Standard Essence Company, a corporation having its place of business time, and in the second of the control of the co

To be of good standard quality. U.LITY.

To be fifty thousand (50,000) pounds during the five (b) months beginning February let and onding June Soth. 1916. U.BTITY.

To be thirty (30) cents for pound, . . . . 8. filter lake, a. J.; drums extra at 10.00 cenh, to be credited if rotuned in good condition, freight projedd, within cixty (60) days from date of original chipment. PRICE.

To be made and taken in equal monthly chip-ments, commoncing February, 1916 and ending June, 1916. DELIVERIES.

Thirty (30) days, or loss 1% within ten days from date of each chipment, gapale in New York City funds, in United States gold or its equivalent in United States currency. COLUMN .

In the event of mer, fire, flood, strike, locked, secident, or other like sauces beyond the control of said letten, interfering with the production, transportstion or consumption compitions.

of the goods herein described, deliveries under this contract may be surpended during the period required to remove the cause and repair the damage.

(signed) Thos. A.Edison.

accented.

Standard Essence Company, (signed) Edwin .. Preston.

Ereasurer & Secretary.

2. 3. Budgers & Sons Co., 75 Fitts Street, Bocton, Mass.

Gentlemen:

I am in receipt of your favor of the EEnd instant regarding our expenditures on the two Carbolic itills at Silver Lake. I am very busy indeed, and it would take quite sometime for me to draft out a report of the conditions which necessited the changes. As you have an Engineer who travels about the country, I think it would be better to have him cous over to our Flant and check up these statements that we have submitted.

Will you kindly have him report to me, or to Mr. Headowcroft when he comec.

Yours very truly,

Mr. James E. Clark, S. Munition Manufacturers' Associates, 1019 Flatiron Building, New York City.

Dear Sir:

Replying to your favor of the 22nd inctunt, we regret to say that we cannot make you any offers on Phenol, as we are contracted up for the present year.

We are in the market for come Bencel for regular delivery over the remainder of this year, for which we could pay 65¢ per gellon, F.O.B... Eilver lake, B. J. The Bensel, however, must be C. P., belling within 1°. What can you offer on this basis?

Yours very truly, Edison Laboratory.

# E.R. SQUIBB & SONS, NEW YORK

New York

New York

EXECUTIVE OFFICE

January 26, 1916.

Mr. Thomas A. Edison, Orange,

Orange, New Jersey. My dear Mr. Edison: Aplam that we have sald our Entere output for 1916 and

trily got enough acids to put pull library by po

you for the tenor of the sauce and 4xhort trest being

You have put your finger on the sore apply when you ask un whether we have provided for Acids and Benrol. It has occurred to the bar willing to a supply us with Antiline Oil at a price milch would make it unattractive to provide for a manufacturing plant.

We haven

May we therefore ask you whether you would book for us a contract over 1916, calling for 40,000 to 60,000 pounds of Antline Oil per month.

Marganetra

If you are in a position to do this we should be very glad to hear from you.

Awaiting your good news, I remain,

Very truly yours

Vice President,

TW-ECH

E.R.SQUIBB & SONS.

Deminian Iran & Stad Campany super 6847 Sydney Cape, Beding, mate

January 25th, 1916.

orense. H. J. Quemple be cent by

Application of the 18th T. A. Edison, Esq.,

Wi can test of ger sir:-Referring to your letter of the 15th wake and the peregraph dealing with the question of Haphthalenc.

I would like to say in reply to your enquiry cut of that we are producing this material in the form of Dry Crude Haphthalene, being dried in a centrifugal drier.

At the present time we have roughly 100 tons of this product on hand packed in bags and if you are interested we would be very pleased to hear from you as to that figure you could offer us for the same.

Yours faithfully,

Jan. 27th. 1915.

Mr. George Hopp, % Bronx Window Shade and Awning Co., 372 Ratt 162nd Street, New York City.

Dear Sir:

Your fever of the SEnd instant has been referred to Er. Edison, and he requests us to say that we here work Sedium ilenciate, in to life solution, containing free sods and Sedium S.liphite and Sulphine. He requests us to ask whether this would cuit your yarpose, and that quantity you would probably desire to obtain.

Yours very truly,
Edison Laboratory.

Jan. 27th. 1916.

Dr. J. Horritt Matthews, 50 East 41st Street, New York City.

Dear Sir:

heglying to your fever of the 24th instant, let me say that I make no dye stuff, except Aniline Salt and Furefany-lenediamine. I do not know of saylone ecopt the Seckor Chemical Company and Scholkopf. Hartford and Hanne, who make eyes.

Yours very trul;

### NEVADA AGRICULTURAL EXPERIMENT STATION

DEPARTMENT OF CHEMISTRY C. A. JACOBSON, PH.D. AUSUST HOLMES, A.B.

UNIVERSITY OF NEVADA RENO NEVADA U.S. A.

Dr. Thomas A. Edison.

West Orang

radically different rom your plaheme

hada of themica

Dear Dr. Edison: -

Under separate cover I am sending you a reprint of my article in this month's Journal for Ind. & Eng. Chemistry on the need of a large government institution for chemical reagarch. Your attention may already have been called to it, but if not, I should like to have you read it.if you can find time to do so. I have tried to emphasize the need of organized chemical research as the basis for military and industrial preparedness for war, and I am wondering whether you have not arrived at some similar conclusion.

Our most effective materials to-day may be antiquated tomorrow, and if we are to prevail against a first class foe, whose chemical industries are twenty five years in advance of ours, it is of prime importance that we lay the proper foundation for these industries at once, The five million dollar experimental laboratory, recommended by your board, would be an exceedingly necessary adjunct to the present naval equipment, but it seems to me we should pursue systematic research in all the main branches of chemistry.

I have already received a large number of letters, from various parts of the country.commending the blan.and these have led me to suggest the following: To obtain briefly stated opinions from twenty five or thirty of the leading men of the nation, upon the feasibility of my plan and have them published in SCIENCE. Would you consent to send me your opinion for that purpose? I would like to call your attention to an error in the paper: Department 47 should be sterines and not stearines. With profound admiration for your scientific achievements. I am

- Sincerely yours Ca. Jacobio

# MUNITION MANUFACTURERS' ASSOCIATES

1019 FLATIRON BUILDING

NEW YORK January 27, 1916.

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:-

Thur favor of the 26th received. In regard to the subject of Benzol, I regret that I cannot supply you with Benzol at 65f a gallon, The price is 70f today. I also beg toinform you that some of the output has been contracted for. If you are willing to pay 70f per gallow, thindly advise me and I will see what I can do for you.

Awaiting your pleasure, I am

Very truly yours,

James E. Clarke

P. S. Have you any use for Aniline Oil? I have been offered 60,000 gallons on a year's contract, 5,000 gallons per month. 98% pure. Price 65s.

I was offered yesterday a carload of Sulphuric Acid, 66°. Now in a tank in New York. Price \$80.00 a ton. In carboys \$85.00 a ton.

Jnc. 28th, 1916.

Mr. Cheodore Woicker, V. Pres., E. A. Squibb & Sons, New York City.

My dear Mr. Seicker:

I am in receipt of your favor of the E6th instant, and regret to say that I shell be unable to contract with you for aniline oil, as we neve cold our entire output for 1916, and have only enough acids to pull through nicely. Some of these acids I have only been able to obtain by puying examples.

Regretting that I cannot help you

out, I remuin,

Yours very truly,

(autolic

# THE HEYDEN CHEMICAL WORKS.

EMTRORY AT GAMPIELD, N.J. CHICAGO OFFICE 230 WEST RANDOLPH ST.

135 WILLIAM STREET.

TELEPHONE-JOHN HIG

NEW YORK. Jan. 31, 1916.

Jay will see huntater about this -

Mr. Thomas A. Edison,

Orange, N.J.

better mere use has

Dear Sir: -

We should greatly appreciate a statement from you when you will begin to make to us deliveries of Capbolic Acid to the full extent of our contract with you dered April 27, 1915. This contract calls for 1000 pounds per day, and deliveries at that rate should have been made against it already last summer.

As your new Carbolic Acid factory is now running, we hope you will see your way clear to give us from now on the quantity due as per agreement.

Very truly yours,

THE HEYDEN CHEMICAL WORKS.

GS/K.

Rou les la

Pittsburgh Plate Glass Company,

96.K.Hitcheock, Gensulting Engineer Pittsburgh, Paz January 31st, 1916.

Aldehook-hout quite Calob Thes

Orange, N.J.

My dear Mr. Edison.

your alrow Soda works must throw away Every day Soo Tom at Calaium Chloride

I have taken the matter up with Mr.

Clause, President of the Columbia Chemical Company, in
reference to the cloride of calcium, and find the Carbondale Calcium Company have contracted for all the calcium
carbide which the Columbia Chemical are making, and they
are at the present time behind on their orders for this
material. I think, however, the Carbondale Company resell
this calcium coloride, and if you write them, they can
probably give you a price on the material.

Had I taken the matter up with others in the office, I could have given you the information earlier, but I was under the same impression you were, that this by-product was made in excess of the amount which found a ready market.

With best regards, I beg to remain
Yours truly,

H. Syktchcock

6900

Wordward

### Edicon:

The figures from Loodward and Johnstown, are as follows: From beginning to January Slat, 1916.

## LOOD AND

|                                     | SHIPMENTS                  | STOCK OH HAND.        | 164.778          |
|-------------------------------------|----------------------------|-----------------------|------------------|
| Benzol<br>Toluol<br>Solvent Haphtha | 16,326<br>16,326<br>10,436 | 7,022<br>6,600<br>400 | 22,926<br>10,836 |

### JOHNSTOWN.

|  |                                      | STOCK OH HAND                    | 73.110                     |
|--|--------------------------------------|----------------------------------|----------------------------|
| Benzel C.P.<br>" 90%<br>Coluct Mannths | 68,452<br>11,391<br>28,172<br>33,380 | 4,658<br>8,155<br>4,256<br>1.182 | 21,546<br>32,928<br>34,562 |

#### ELECTRIC MOTORS

### All Motors 230 Volto - Direct Current.

| Operation                      | No. of<br>Notors | н. Р. | Typo             | lianufacture | Rovol.<br>per<br>r Minute | Back<br>Goared    | Direct<br>Con-<br>nected Remar                               | ke   |
|--------------------------------|------------------|-------|------------------|--------------|---------------------------|-------------------|--|------|
| No. Name                       |                  |       |                  |              |                           |                   |  |      |
| 1. Sulphonation                | 12               | 1     | 0.41             | Grooker-i/ho |                           |                   | Bolt Drivon  |      |
| 2. Limina                      | Б                | 2     | C.C.M.           |              | 1625                      |                   | Goar Driven  |      |
| 3. Filter Pross                | 09 4             | 3     | C.M.             | , ,          | 1050                      | Flexible          | onnected to pur<br>coupling.<br>ton Centrifugal<br>540168-W. |      |
| 3. Filter Press                | 00 4             | 2     | C.M.             |              | 1700                      | Direct t          | o ramp   |      |
| 4. Decompositio                | n 2              | 2     | 0.0.11           | a ' (        | 1625                      | 6 to 1            | Goar Driven  |      |
| 4. Pumps<br>Pumping into       | 1                | 2     | C.M.             |              | 1700                      |                   | onnected to<br>ngton Pump.                                   |      |
| 4. Pumps<br>Fumping from       | 1                | 2     | 0.11.            | "            | " 1700                    |                   | nnected to<br>on Pump No. 12                                 | 3393 |
| 5. Concentratio                | n 3              | 1     | C.M.             | "            | " 1200                    | Direct Co         | nnocted to<br>ton Pump No. 54                                | 0170 |
| 6. Crushing Sal                | <u>t</u> 1       | 5     | Shunt<br>Wound   | General El   | ectric 1150               |                   | Belt Drive   |      |
| 7. Fusing                      | 6                | 3     | 220 Vol          | t Spragu     | e 1250                    | 6 to 1            | Gear Drive   |      |
| 8-A Crushing Cal               | <u>ce</u> 1      | 5     | 220 Vol          | t Goneral E  | lectric 375               |                   | Bolt Drivon  |      |
| 9. Koutralizati                | ion 4            | 3     | Р. Т.            | Sprague      | 1250                      | .6 to 1           | Gear Drivon  |      |
| 9-4 Settling of<br>Crude Pheno | 1                | 1     | 220 Vo1          | t Crocker-W  | heeler 1200               | Direct            | Connected to<br>gton Pump 58618                              | 2-W  |
| 10. Distilling of P. Phenol    | o <b>£</b> 1     | 1     | 0. M.<br>250 Vol | t Crocker-   | heeler 1200               | Direct<br>Worthin | connected to<br>gton !ump 53617                              | '6-₩ |

Edison General File Series 1916. Chemicals (E-16-16) February AGREENBUT

Between

DOMINION IRON AND STREET COMPANY LIMITED

and

THOMAS A. EDISON

Dated:-

MIMORAHDEM OF AGREEMENT in respect to sale and purchase of bensel, made this let day of February, 1916, between POMINION IRON AND STEPL COMPANY, LIMITED, of Sydney, Nove Scotia, hereinafter called the Seller, and THOMAN A. FEDIUM, of West Grange, New Jersey, hereinafter called the Buyer.

White the

This agreement cancels and supersedes previously existing agreements and contracts between the parties hereto, in so far as they relate to the sale and purchase of beneal, but nothing herein shall be held to abrogate the agreements and undertakings of the parties hereto in respect to plans to be furnished and services to be rendered by Thomas A. Edison, or the consideration to be received therefor by Thomas A. Edison.

The Seller screen to sell and the Buyer across to buy 220,000 United States unlions C.F. bennel at a price of twenty-five cents (25%) per United States unlion, to be shipped at the rate of 20,000 gallons per month during each and every month from February, 1916 to December, 1916, both inclusive.

In addition to the aforestid 220,000 gallons of bonnel, the Seller agrees to sell and the Buyer agrees to buy 65,000 United States gallons 0.2, bensel at a price of fifty-nine cents (65%) per United States gallon, to be shipped at the rate of 5000 gallons per menth during each and every menth of the period from Pebruary, 1916 to December, 1916, both inclusive.

It is mutually understood and agreed that if for any reason the Soller shall fall to supply the entire 275,000 gallons of benzel hereinbefore agreed to be supplied, the Buyer shall not be charged more than twenty-five cents (254) per United States gallon for such benzel up to 220,000 gallons thereof.

The Seller furthermore agrees to sell and hereby gives to the Bayer the option of purchasing C.P. bonsel at a price of twenty-five cents (25%) per United States sallon not to exceed 20,000 United States sallons per month during each and every month from January, 1917 to June, 1918, both inclusive, or such portions thereof as the Bayer shall order; provided, however, that the Bayer shall be required to the coller three months notice in advance of the Bayer's requirements for such three months period of the period from January, 1917 to June, 1919, both inclusive.

All shipments of bensel hereunder shall be from the Seller's works at Sydney, N.S., in tank care to be furnished by the Duyer and shall be consigned to the Buyer at Orange, New Jorsey, or elecwhere in the United States as the Buyer may direct, Buyer to pay freight and duty.

In the event of sufficient tenk cars not being supplied in any one month to take care of the monthly quota, the Buyer has the right to furnish and the Soller has the right to insist on the Buyer furnishing additional tank cars to enable the Seller to make up the shortage in the month following such short shipment. Should it so happen that it is found impossible to furnish additional cars in the month following the short shipment to make up such shortage, the contract period for shipment of such shortupe may be extended

for a period to be mutually agreed upon to permit of the shortage being taken care of. It shall, however, not be incumbent on the Seller to make up any such shortage caused by the Buyer failing to furnish tank cars sufficient to tuins care of any monthly quota not later than the month following the short shipment.

The Buyer agrees to make payment to the Seller for all bensel shipped as aforemaid within thirty days from date of invoice. Shippers weight measurement and cause to severn.

Deliveries may be suspended pending any continguation beyond the central of the Seller or Buyer (such a fire, accident, war, strike, lock-out, dissaster or interruption in nurksation or transportation, inability to obtain cars, or the like) causing a short supply of labor, fuel, cars, raw material, or manufactured product, and preventing or hindering the manufacture, delivery, acceptance or consumption of the material covered by this contract.

It the buyer makes default in any payment or is adjudicated a benkrapt or becomes insolvent, the Seller may at its own option cancel further deliveries.

IN WITHUES WHEREOF, the parties heroto have executed this agreement the day and year first above written.

|         | Ву | <br> |  |
|---------|----|------|--|
|         |    |      |  |
|         |    | <br> |  |
| itness: |    |      |  |
|         |    |      |  |

DOMINION IRON AND STEPL COMPANY, LIMITED

Combolic Phone My Lon That he is peracutely necking lavage qua. of Diphonol from cesing by Rulphonading too hat Halving it hat Rawould the End a nateo 6ad

Benzol to be supplied to Edward weder the contract at 25 conto US gal -Freighto deely to be paid lay Edward on delivery 20000 gods monthly to be delicered to Edwar whole ald Contract Color Edward to necke our additional Contract to take 5000 galo monthly of additional per mouth, or 10 cool of the Steel Co can supply it stanting in fearming or continuing to Dec 31 1916 - The price to GE paid by Edwarfor This Bangal is 50 feet, at will - Edwar pary freighta desty to Oroginge Edward to supply Cars affice gular intervals to the Kreetra and

ر بادق اورن ب

Doning

Pob. 1st. 1916.

Arrangement agreed to between Mr. Edicon and Mr. Plummer February Lat. 1916.

Bensel to be supplied by seminion Iron & Steel Company to Edison under the old contract, at EMM per S. S. gallon. Freight and duty to be paid by Edison on delivery. 20,000 gallons monthly to be delivered to Edison under old contract.

Edison to make an additional contract to take from Dominion Iron & Steel Company 1,000 gallons additional per month, or 10,000 gallons if the company can surply it, starting in February and continuing to December Sint, 1916. The price to be taid by Edison for this additional Dominion is 59% per gallon at the Steel Company's Flant. Edison pays duty and freight to Orange. Edison to supply tank cars at regular intervals to the ratiroad for delivery to Tydney.

Nothing herein to abrogate conditions of old contract at to the three years or the regular.

T.A.E. J.H.P.

Feb. 1st. 1916.

Dominion Iron & Steel Company, Sydney, Nova Scotia.

attention of Mr. Machaughton.

Gentlemen:

Your favor of the 26th ultimo in regard to Maphthaline has been received. If you will kindly send by express a ten pound average sample, I will test it, and see if we can make anything out of it.

rlease address this sample to my assistant, Mr. W. H. Headowcroft, at this address.

Yours very truly,

IEWYORK OFFICE AND SALESROOM: 199 FULTON STREET.

GENERAL OFFICES AND SALESHOOM IOS HUDSON ST. JERSEY CITKN.J.

CENTRAL TELEPHONE STATION "6840 CORTLANDT "NEW YORK. GRAND PRIX, PARIS,1900



FOREIGN DEPOTS: LONDON, PARIS, BERLIK, VIENNA. SYDNEY, MONTREAL, CAIRO. YOKONAMA, NONCROBE, CALCUTTA.

CABLE ADDRESS:
"CASHMERE" NEW YORK.
ALL CODES.

Soap Makers Dirfumers New York

M

Jobruary 1 1 1916.

Mr. Thomas A. Edison, Yest Orange, New Jersey.

My Dear Mr. Edison:

I have asked our Superintendent, Mr. D. W. Tayler, to write in full our process for filtration of mud lime. I trust that it will give you the information required.

There are butter methods than the one which we are now using, but rather than take out all of our present plant, we consider it advisable to continue its use for some little time to come.

If there is any other information you desire or if you would like to send someone from your factory to inspect our method, ploase let me know.

Yours very truly,

Richanni agali-

R.W.C./J Enclosure.

February 1st, 1916.

Mr. Richard M. Colgate:

caustic lime, we let the Mud Lime settle, remove the Caustic Soda solution from above, wash the mud lime once in same tank with water, removing the wash water from above the mud lime once in same tank with water, removing the wash water from above the mud lime. The mud lime in then mixed with snough water to make it in a condition fit to pump, then pumped to filtering tanks.

bottom of which is a seroom, on top of the seroem is gravel, and on top of the gravel a heavy wire seroem, on top of the gravel and control of the gravel a heavy wire seroem, on top of this a fine breas seroem and on the seroem of the seroe

After the mud lime is pumped in these tanks it is washed with water. The remaining mud lime contains about 1.75% free lime CaO and less than 1% of alkali NagOO3, and from 30% to 40% water.

We do not consider this method the best if erecting a new plant. If the lime can be used in any way, it would certainly pay to use a filter press.

If we were to erect a new cauticizing plant we would investigate very carefully the process developed by the Dorr Cyanide Machinery Co., 17 Battery Flace, M.Y.City.

D. W. Taylor.

Carbilic



# E·R·SQUIBB & SONS

GENERAL OFFICES 78 & 80 BEEKMAN STREET, NEW YORK CITY. CHEMICAL & PHARMACEUTICAL LABORATORIES, BROOKLYN, N.Y. E. R. SQUIBB & SONS RESPARCIT & BIOLOGICAL LABORATORIES, NEW BRUNSWICK, N. J.

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO E. R. SQUIBB & SONS, GENERAL OFFICES, NEW YORK.

NEW YORK, February 1, 1915.

Mr. Thomas Meadowcraft, Soo'y, Return at our Thomas A. Bilson, Thomas A. Bilson, Typense & Sony our new Orange, N. J.

still will be heady soon

We have on hand some of your acid at they could get which is discolored - one drum or about 250 me of your acid at the could get which is discolored - one drum or about 250 me of your acid and 8 time of 8 pounds each - the funct pland in all 465 younds. We would like to return this to you for exchange for white acid.

will you please let us know whether made This is to return it to you in the above to appeal of well by appeal of you wish us to return it to you in the above packing?

We await your reply.

Very truly yours,

E. R. SQUEEB & SONS.

Treasurer.

HGW/FC

NEW YORK

FOUNDED 1818.

ST. LOUIS

#### POWERS-WEIGHTMAN-ROSENGARTEN CO.

MANUFACTURING CHEMISTS

NINTH AND PARRISH STREETS

(6902

PLEASE REFER REPLY

Philadelphia, February 1, 1916. Day that it is against Mr E.

Laboratory of Thomas A. Edison, Orange, New Jersey

prolicy to give exclusive rights to also one = UR are not beck,

Dear Sirs:-

We acknowledge due requipt of your favor of the 27th. Ultimo to which we have given our careful actions that the public to the uncertainty of the situation, a decision by us is reason that we are uncertain as to whether the two floures who, from your letter we understand would mish to be supplied with 1100 lbs. per month, would consume the quantity in question in their own manufacturing work, therefore eliminating that dantity from competition on the market, or whether the two oursoners precisied expected to resell your product and if such in the could hand to the supplied that the wood of the control of the country of the count

We have always distributed more or less of this particular product and we could continue to handle reasonable quantities if the situation did not develop in a way to prevent interest in the article. If you will kindly favor us with a frank statement regarding the facts, which of course will prove of mutual interest, we would be glad to hear from you.

Very truly yours,

POWERS-WEIGHTMAN-ROSENGARTEN CO.,

BÁVRH

Secretary

Convali

Pob. 2nd. 1916.

Mr. Charles E. Speirs, S. D. Van Hostrand Company, E5 Fark Place, Hew York City.

Dear Mr. Speirs:

Will you kindly send the following books for Er. Edison to look at on approval.

Caine & Thorpe,

Synthetic Dyestuffs and Intermediate Products.

Fey,

Conl Tar Colors.

Georgevics,

Chemistry of Dyestuffs.

Yours very truly,

6873 "Synthetic Dycoloffs and Noternachate Producti Fay: "Gal Tar Colors Georgenics: "Chemistry of Digestuffs" Mr. Meadowroft. Dear Sir: bon we get there books from Van Mortroud sent out on approval. Send for them on approval

#### ORIGINAL.

A. M. WOOD & CO., INC.

Commercial Trust Bldg..

Number S-1519

QUANTITY.

Philadelphia, February 2, 1916.

A. M. Wood & Co., Inc., of Philadelphia, agree to sell

Mr. Thomas A. Edison agree to hun.

Entire requirements for six months, February first to August first approximately 100 tons per month. Dry clean cast iron borings, free from bras, all MATERIAL. to pass through 7/32" mesh screen and to conform in fineness to sample submitted. \$18.50 per ton for all cars which do not require shipping to Lincoln, H. J. for screening \$22.00 per ton for all cars requiring shipping to Lincoln, H. J. for screening. The difference in price of \$3.50 per ton to cover labor and extra freight. PRICE. Less 1% for cash in 10 days. TERMS. To be shipped in box cars, swept clean before loading SHIPMENTS. to Thomas A. Edison Amiline Plant, Silver Lake, N.J. for Erie delivery. It is mutually agreed that we are to have the refusal REMARKS. on a further six months contract on account of the equipment we are installing to properly supply this material. NOTE.-Materials must be waybilled as scrap iron. Minimum car-load weight must be at least 20 gross tons, Unless otherwise instructed load in gondola cars. Original B/L must accompany

ACCEPTED (signed) Thos. A. Edison.

all bills.

A. M. WOOD & CO., INC.

and

DATE Feb. 2, 1916

(SIGNED) A. HOFMANN. Secretary.

KINDLY DATE, SIGN AND RETURN DUPLICATE CONTRACT.

Cambria

Peb. 3rd. 1916.

Mr. John Bacon, Jr., F. Edison Benzol Plant, Johnstonn, Pa.

Dear Sir:

After looking at your report of Peb.

let, ihr. Edison wiches no to ask you why your
output of light oil her gone down. He wishes
me to ask whother the Cambria Company are not
ooking rood qual. He also tishes me to sak whether
you know 10 they intend coking better coal or a
better mixture.

Yours very truly,

assistant to Mr. Edison.

Carbole McKESSON & ROBBINS MPORT DEPARTMENT Dear Sir: We have your favor of the 2nd and thank you for your offer of 1000 lbs. Crystal Carbolic Acid per day from May 1st to December 31st, 1916, at 85¢ 1b. Act us know if you will guarantee them F.O.B. Silver Lake. to answer the U.S.P. requirements throughout the period of delivery, and oblige Yours very truly.

755. 4th. 1015. ·

Lr. H. H. Hitchcock, Conculting Engineer, Littsburgh Plate Glass Co., Frick Building, Littsburgh, Pa.

Dear Mr. Hitchcock:

I am in receipt of your fevor of the blot ultime, but did not quite eath on when you say that the Carbondele Culcium Company nero contracted for all the <u>Carbide</u> which the Columbia Chemical Company are meligy. Your akron Bods borks must three away every day at least two tone of Colcium Chloride.

Yours very truly,

February 4th. 1916.

Mr. Edison:

Ask Maron of to

Budger culled up from Boston on the telephone and said that they could not sond their engineer to Silver Luke at present to see what we did in regard to the while.

They say that tome sort of report must have been made to you about the stills, and they would like to have a copy of it. I told them that it was an oral report.

Then they said they could not understand thy the changes for Lemmerhoff's stile cost so very much loss than those at the new plant, and asked if we could not make some sort of a statement for them so that they might have a little better understanding of the matter.

If I knew anything about the technical details of these two stills, or had any knowledge of what was done and what changes were made, I would draft up some kind of report and show it to you for approvel, but as you know, I was here all the time, and do not know the pracyloid details.

what can we do about making a report for them?

MEADOWGROFT.

In Kamhaf Case we was the Badger Code I that k has well him Tell & I from #2 Itel wheneas #2 has get new storls & Carble Address: Hilsoni, S. D.

## MITSUI & CO. LIMITED.

(. Hitsui Bussan Kaisha, Std.)

TOKIO
YOKOHAMA
YOKOSUKA
KOSE
OSAKA
NAGASAKI
MOJI
NAGOYA
KUCHINOTZU

NIIGATA

TSURUGA

MINE WAKARATSU KARATSU KURE KISHIMA SASEBO MAIZURU MURO RAN AWOMORI MIYAKO SUNAGAWA OTARU DALNY
SAPPORO TICLING
TAIPEN TICHTSIN
TAINAN CHEFOO
CANTON HANHOW
HONG KONO SWATOW
NEWGHWANG FOOCHOW
ICHOSHUM TSINGTAN
HARBIN PEMINO
YLADIVOSTOK GIRIN

MOUKDEN
SEOUL
CHEMULPO
ANTONNEN
KWANCHINTU
BANGKON
RANGOON
SOURABAIA
CALCUTTA
SYDNEY

LONDON HAMBURG LYON PETRODRAD DALLAS SAN FRANCISCO PORTLAND MANILA BOMBAY SINGAPORE

25. Undison Avenue,

Taphene 10010 Hadisen

New York, Tebruary 4, 19/6.

Thomas A. Edison, Inc., Orange, N. J.

Attention of Fr. E. H. Headoweroft.

Dear Sir :-

De: Toluci From Your Cambria Plant.

We would like to know very much if you will authorize us to negotiate with Italian Commandestoners for the sale of C.P. Toluol from your Cambria Plant, at the rate of 130 gallone per day, beginning with April, 1916 and ending on March 31, 1916.

As you know, we are working with Mr. John Sloame on a large order from Russia for Hall-Scott Motors and Sloame Asroplames, and at this moment we committed ourselves to the extent of 100 Hall-Scott Motors, for which we actually made the contract to buy. At present, the prospects are very bright in obtaining an order for 300 Motors and 100 Sloame Machines.

Under the circumstances, it is very important for us to keep the representative of Hall-Scott Hotor Car Coppaga in Hew York, on good terms with us. Mr. Whitaker of Hardy, Stancliffe a Whitaker is the representative, and we found that his firm act as counsellors for the Italian Commissioners.

and if I can sell your toluol from Cambria Plant to the Italian Commissioners and give them some commission, it will place us in a very favorable position with Mr. Whitaker.

Would you be good enough to make me the following proposition:-

C. P. Toluol, Barretts Specification, 4,000 to 4,500 gallons per month, beginning with April, 1916 and ending in March 1917, at the price which is to be agreed upon by you later on.

If you give me such an authorization, I will get Mr. Whitake's firm to approach the Italian Commissioners and find out how much toluol and at what price they are willing to buy, and we will immediately get in touch with you, and mek you for your price.

The contract will have to be made between the Italian Commissioners and yourselves, or if you wish, we will eign the contract on your behalf, holding ourselves responsible for the payment to you.

The main object in this matter is to capture

Mr. Whitaker in order to help ourselves out in our negotiation
with Hall-Scott Motor people, but of course, we would like to
make a little bit out of this, if you do not mind. We, therefore
would like to ask you to give us 10% commination, to be divided between Mr. Whitaker and ourselves, of the contract price, which
we will try to make as high as possible.

Hoping that you will extend us your courtesy

Shinizo Jak aki

ST:VC

75

Feb. 5th. 1916.

Miteui & Company, Limited, 25 Madicon avenue, Lew York City.

attention of Mr. Shungo Takaki.

Dear .ir:

Your favor of the fourth instant in regard to the Toluel from Mr. Edison's Cambria Flant has been received. I now beg to confirm what I told you over the telaphone this morning, namely, that we shall be unable to make you any proposition, as we have already disposed of the Toluol from the Cambria Flant for one year. Yours very truly,

assistant to .r. Edison.

Feb. 5th. 1916.

Powers-weightman-hosongarten Co., Ninth and Terrich Etreets, Thiladelphia, Pa.

Gentlemen:

coplying to your favor of the first instant, we beg to say that it is preinct the Réfeonte policy to give to anyone socialize rights of sale of any of his products. It would be aspecially to in the case of from a hydrogen, as we are not really sociate to build up a trade in this exactful, nor do we intend to, except in regard to our excess. to make a large quantity for our own requirements, and could capilly a cortain quantity in excess, thout increasing our investment. It is with regard to this excess that to have had our provious correspondence with you.

or. Edison did think that he might try to take core of a larger production, but seem to think now that the business is not sufficiently attractive at the price.

Yours very truly,

Editon Laboratory.

ATTORNEYS AND COUNSTITUDES AT LAW 120mbl BROADWAY, NEW YORK

141400000

Thomas A. Edison, Esq.,

Edison, Esq., Meadocraft Orango, New Jorsey. Get logether all the junparo

Dear Sir:

Mr. Herbert Lowis of this city has turned over to-us all his correspondence with you concerning his commissions upon the sale of your supply of toluch to Messrs. J. P. Morgan & Coppany, and has asked us to write and ascertain if this matter could not be amicably adjusted. Mr. Lewis tells us that he went into this proposition relying upon your word that at least six hundred tons of toluch were to be delivered, feeling certain that no better security could be given to him than your statement. He feels that he was justified in relying on this without having any writing covering it. If you think some adjustment of this matter could be made we will be pleased to hear from you; otherwise we will be obliged to send the case to our New Jersey representative.

Yours very truly,

zaltanar Bruthurn

CFDP-MS

(S

February 11th. 1916.

Mr. Holden:

I hand you herewith come papers relating to a matter on which Mr. Edison tould like to have your early attention. In connection with them, lot me make the following statement of facts. In the early part of Pebruszy lest year a Col. J. D. Davis brought and introduced to Mr. Edison a Mr. Merbert lewis, of London, who opened negotiations with M.. Edison for the Toluci which he expected to make at the Bensel Plant at that time in course of erection at Johnstonn, Pa.

These negotiations were consummented by a sale to the British Government through J. P. Horgen & Company as per contract contained in lotters 1 and 2 hereto attached. The arrungements with Mr. Lewis in regard to commission, and in regard to commission to be raid by him to Col. Davis are covered by letters 3.4 and 5 hereto attached.

The first three pupers attached hereto will show you the turn the matter has taken at this time. Lill you please note Mr. Edison's memorandu on these three letters, and proceed in accordance therewith. If you write to Dos Passos Brothers, it might possibly be well to let us see your proposed letter up here.

W. H. MEADOWCROFT.

g bull

February 14, 1916

Messrs. Dos Passos Bros., 120 Broadway, New York, N. Y.

Gentlemen:-

your letter of the 7th inst. to Mr. Edison relating to the alleged claim of Mr. Herbert Lowis has been referred to this department. Mr. Edison denies that he ever gave Mr. Lewis any assurance that the quantity of toluch to be supplied to Mesers. J. P. Morgan & Company would amount to at least six hundred tons. Up to date, 28,672 gallons of toluch have been supplied under the contract, and no more, and Mr. Lewis has been paid, cither directly or through the Equitable Trust Company of New York, the sum of 1428,60. Mr. Levis has therefore been paid in full up to date everything due him under his contract with Mr. Edison, and I am unable to see that he has any further claim.

Yours very truly,

General Counsel

|              | T  | LUOL SHIPPED ON AC | COUN | OF B           | ALTISI | CONTRACT | /      |  |
|--------------|----|--------------------|------|----------------|--------|----------|--------|--|
| Lot          | #i |                    | June | 18th,          | 1916   |          | £,939  |  |
| "            | 2  |                    | July | 3rd,           | 1915   |          | 2,867  |  |
| "            | 3  |                    | 11   | 28 <b>6h</b> . | 1916   |          | £,542  |  |
| "            | 4  |                    | Aug. | 25th,          | 1915   |          | 3,664  |  |
| 17           | 5  |                    | Sept | .18th,         | 191t   |          | 3,192  |  |
| π.           | 6  |                    | Oct. | Eoth,          | 1915   |          | 4,406  |  |
| 11           | 7  |                    | Nov. | 24th,          | 1915   |          | 4,936  |  |
| п            | 8  |                    | Jan. | 13th,          | 1916   |          | -4,026 |  |
| Total 28,172 |    |                    |      |                |        |          |        |  |

225-E



Av Post Office Building, Jersey City, N.J., FEB -8 1916

Reference: (a) Bureau of Supplies & Accounts ltr. 23233 of 12-24-15. Subject: Phenol - date on which monthly deliver es should be ready for inspection to avoid assessment of liquidated damages.

Sir:-

- 1. While inspecting the Pebruary shipment of phenol on Feb. 7th, Mr. Kammerhoff mentioned to me the matter of liquidated dumages which had been assessed your company for the delay of delivery due Dec. 1st, and requested that I inform him when he should have the material ready for inspection in order to avoid a similar occurrence.
- this. From the first that the another state of the to down the first that the another state the total parties about the ready for importion on or before the 5th of each month, and the Inspector should be informed sufficiently in advance of that date so that it will be possible for him to make the importion by that time. This procedure on your part will clear you from the assessment of liquidated damages.
- 3. Should the Impressor be untile, oring to other Government business. On appear at your porces on or before the 5th of each subject to the state of spector automatically takes up the matter with the proper authorities, thus preventing the assessment of liquidated damages and savties, thus preventing the assessment of interesting the company any correspondence relating thereto.
- 4. The inspection of the Feb. shipment is a case in point.
  The Inspector was informed by messanger early Friday Feb. 4th, that
  the material was ready for inspection. He was unsafe a make the inspection before Monday, Feb. 7th. The hurse of Supplies and Ascounts
  will be informed at the proper time of this fath, and you will not be assessed liquidated damages for the Feb. shipment.
  - 5. Will you kindly give Mr. Kammerhoff the information he

desires as I promised to let him know but thought it better to take up the matter directly with you.

Respectfully,

Lieut.Comdr. U.S.Navy, Naval Inspector of Powder, E. C.

Mr. M.R. Hutchison, c/o Laboratory of Thomas A. Edison, Orange, N.J. UNITED PIECE DYE WORKS

DYERS PRINTERS AND FINISHERS IN THE PIECE OF

ALL SILK FABRICS, SILK & COTTON MIXED GOODS,

Para

LODI & HAMTHORN

32 MADISON AVENU

7065 LODI, N.J.

February 9th. 1916

Mr. Thomas F. Edison,

Edison Laboratory,

Grange, ".J.

andy 3 miles for

Who better do no chung Who better do no chung which have

Dear Sir,

SUBJECT: ORTHO-NITRO-PRESCL.

We have before us your foror of the 7th. inst. and incomply beg to state that we are in the market for this material and will be pleased to have you send us samples and price. Our requirements one

We would be interested to heer from yours soon at your

Findly scares all further coss mications tower anything

Will the United Piece Ite works,

handiete flish Assistant Treasurer.

encuming heart of the

HLB/RE, LACO Wen, Wenganger

## E.R. SQUIBB & SONS, NEW YORK MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858

NewYork

Executive Office

EXECUTIVE OFFICE

February Ninth Nineteen Hundred Sixteen

Mr. Thomas A. Edison Orange, N. J.

Dear Mr. Edison:

that you would be willing to sell use a set of drawings for a plant for manufacturing aniline oil as you do it. We have pre-tically decided to take up this product, and I shall therefore make free to call on you soon for a conference regarding the drawings. So the product of the conference regarding the drawings, smilline oil of the conflict which was not been as you know is required will cost per pound by your process on the hass of 64¢ per gallon for femcol 90%. Barrett specifications, 100% per pound for nitrig acid 42 degrees, and 40 per ton for subpluments of the aniline oil.

In view of the rapidly changing sarket for acids and Benzol we would very much appreciate a reply from you at your very sarliest convenience.

Yours very truly

Vice President,

They better Come + see us

February 10th. 1916.

Mr. Zammerhoff:

Herorith I hand you copy of a letter from Lieut. Kimborly in which he makes explanation in regard to the date of delivery and notification for inspection. \* #ill you please be guided by the instructions contained in his letter.

I am glac of one thing, and that is, that this differs from the army shipmonts, which we have to make years 30 grows from the army shipmonts, which we have to make years 30 grows the large that the property of the large should be ready for imprecious or before the ith or each month, thus giving a definite date. This will be helpful for us.

T. H. MEADOWCHOFT.

Enclosure.

Silver Lake, E. J.,
Pebruary 10th, 1916.

Mr. Meadowcroft:

## RB: THENOL CONFORMING TO THE U. S. PHARMACOPOELA. Your memorandum of Feb. 8th.

We have made a careful laboratory test of our Phonel as it comes from our stills the test being made according to the description which you have sony me.

30 find Ant our Fhonol passes all requirements. The assay showed 99.2,5 of absolute Fhonol, whilst the minimus required to 96,5 of absolute Fhonol.

I would like, however, to draw your extention to the fact that in repard to the expression "Aromatic odor") dies not idefine clearly what is meant, so that it means possible that in this respect misunder-standings might occur. It may, perhaps, be possible to point this out in a contract with the customer, so that we do not run any risk if the oder semetimes should not come up to the standard which the customer outs up.

They are for white the form of and are the Robbins was the form th

## American Oil & Supply Co.

## Oils, Greases, Acids. Chemicals

52-54-56 Lafayette Street

Newark, N.J. Feb. 10th, 1916.

Thes. A. Edison, Lab.,

West Orange, H. J.

My dear Mr. Edison:

A certain friend of cure has an idea that he is a chemical merchant and incidentally the king of all pertaining to Aniline oil. I don't think so myself. I am enclosing herewith a check for \$855.00 as your share of a listle so that I had with him.

The stub attached to the check explains

itself.

V-une oingonely

9054

32 BROADWAY, NEW YORK

Jan me February 10, 1916.

Messrs Thomas A. Edison, Inc.,

Orange, N. J.

Dear Sirs:-

Enclosed is a clipping from this morning's Journal of Commerce which no doubt will be of interest to you. I am desirous of conducting an independent investigation as to the prospects for an adequate supply of dyes. As an sid in this direction, will you oblige by giving me such facts as are available in connection with · your own production, and especially the prospects of production? Any suggestions for improving the dyestuff situation

will also be highly appreciated.

News Editor.

lay the manifacture about 14000 lbs after (a) Contolic daily also 5000 lbs andre col a variable almount of nitro benz of or Paraphanylensolicemine - The dater is almost enterely for Fur Dyema - The Andrew Gel when marthy for Dyems Andrew Gel when a catylings however black rates as a catylings in Robber Works

OF COMMERCE AND COMMERCIAL BUILDED

# SAY DYE PRODUCTION

SAY DVE PRODUCTION

IS EXAGGERATED

JOINT CONFERENCE AFFEATS OF SECRETARY REDUISED.

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## SAY DYE PRODUCTION

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THE JOURNAL

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# WESTERN UNION

TELEGRAM

GEORGE W. E. ATKINS, VI RECEIVER'S No.

SEND the following Telegram, subject to the terms on back hereof, which are hereby agreed to

February 11th. 1916.

J. P. McNaughton, Dominion Iron & Steel Co., Sydney, N. S.

When will you send me the additional contract for five or ten thousand gallons more Benzol per month, contract based on memorandum agreement signed by Flummer and myself day before he sailed. I have put two more tank ears on Sydney service to cover this. Can you let me heve still more in addition to above commencing May first at fifty-nine cents.

m. Edison THOMAS A. EDISON. 9 scul the above.

Il ocens quite clair tome. mearowarks

Controles

Silvor Lake, H. J., February 11th, 1916.

Mr. Edison:

Re: IMPORMATION FOR MR. TATSUMI.

According to your directions, I am sending you a list of questions put up by Mr. Tatuumi, and my answers thereto. Please lat so know if those complementous are settisfactory to you, so that I may tarn then even to Mr. Tatuumi. Bosides, the latter has received a set of blue prints of our agencies, tanks, oto., as for as such drewings are swellable.

M. KAUM RHOFF.

M Edward CK.

QUESTIONS FROM AND ANSWERS TO MR. TATSULI.

Carbolic Mikin

#### Question

#### SULPHONATION

- (a) I have heard from you that six hours is required for one operation. Then can we operate four times per day by this sulphonating pot?
- (b) That quantities of Bousol and Sulphuric Acid are charged at one time?
- (c) I think Sulphonating Fot have been acting by said. Repairs must be often done, isn't so?
- (d) Are cooling and heating necessary in sulphonating?
- (e) How do you detect the end point of Sulphonating?
- (f) How many revolutions per minute has the Sulphonating Pot?

#### GALCIUM

- (a) How many rotations per minute has the Calcium Tank?
- (b) How do you detect the end point of neutralization point by Calcium?
- (c) How many capacity has the

#### Answor

- (a) the pulphoneting process takes about six hours if 90% Sulphuric Acid is used; it takes about eight hours if Fusing Acid is used.
  - (b) In the Sulphonating Process we use 350 pounds of Benzel, plus 840 pounds of Culphuric Acid of 98%. Or 430 pounds of Benzel, plus 722 pounds of Funing Acid.
  - (c) Repairs of some or the other kind have to be frequently made. Funing Acid, however, appears to be more aggressive, and consing more repairs than does Sulphuric Acid of 98%.
  - (d) It is necessary to provide the sulphonating kettle with steam as well as with water connections, the steam being used for heating -- the water connection for cooling purposes.
  - (e) During the Sulphonating Process the operator inserts a small glass pips from time to time, closes it on the other end by his finger, takes the pips out of the kettle and soes if any free Sonso is left on top of the Acid.
  - (f) The stirrer in the Sulphonating kottle makes about sixty revolutions per minute.
  - (a) The stirrer in the Calcium Tank makes about 25 revolutions per minute.
  - (b) We use Litmus Paper in order to test whether the neutralization has been carried through.
  - (c) The Calcium Tank has a capacity of about 1575 gals. We put in it at a time one charge coming from the Sulphonating kettle.

#### 3. CALCIUM SALT OF BENZOL SULPHONATE

- (a) How many capacity has the
- (b) I think the filter press is sufficient for 1 ton plant daily. How do you think?
- (c) Have you some proposal to press stronger than present pressing in order to prevent the loss of Benzel Sulphonate solution?

#### 4. ADDING OF SODA ASH

- (a) Are the soda ash tanks quite same as Calcium Carbonate Tank? If not so, please tell me the capacity of soda ash tank.
- (b) How many revolutions per minute has the soda ash tank?
- (c) How do you detect the end noint of sodn ash adding?
- (d) Do you dilute the solution of Benzol Sulphonate of soda in order to decrease the loss of that soda salt with Calcium Carbonate?

#### 5. EVAPORATION OF SODA SOLUTION OF BENZOL SULPHONATE.

- (a) How many capacity has the evaporating pan?
- (b) At what degree of concentration do you change the solution into the drying pan?
  - (c) How many capacity has the drying pan?

- (a) One press has a capacity of 32 cubic feet in 48 frames of 36 inches by 36 inches equare. It is large enoughto receive one batch from the Calaium Tank.
- (b) For a production of 2000 lbs. of P. Phonol a day, I think it wise to have two presses, one of which serves as reserve. If one press only is installed, there should be no a kind of reserve a second complete set of plates.
- (c) For forcing the solution out of the press we are using pressed air of between 40 and 50 lbs. pressure per square inch. So far as we have found out, it would help very little to use still higher air pressure. At present we do not know of a better method to get the solution separated from the much.
- (a) The tank has a capacity of 1660 gals. I advise using a steel tank instead of a wooden tank.
- (b) The stirrer makes about ten revolutions per minute.
- (c) We test the process of decomposition with Litmus Paper.
- (4) One batch in a Sulphonating lettle consisting of 350 pounds of Benrol takes 200 to 210 lbs. of Seda Ash, the latter being dissolved in about 100 gals. of water, and then mixed with the solution in the tank where the decomposition takes place, the solution coming from the press, being lime Benrol Sulphonato.
- (a) One evaporating tank has about 1100 gals. capacity. I advise using steel tanks instead of wooden tanks.
- (b) We boil the solution down so far that it just can be pumped over into the drying tanks, its specific gravity being about 1100 at 40° Contignate.
- (c) The drying tank has a capacity of about 1550 Gals.

#### 6. ALKALI PUSION

- (a) How many quantity of Caustic Soda, the soda salt of benzel sulphonate and water are charged in the melting pot at one time?
- (b) How do you detect the finishing point of Alkali Fusion?
- (c) I want to know the temperature of each half an hour during the whole operation of Alkali Fusion.
- (d) How many time is required to alkali fusion? If possible, I want to know the separate hours of charging (1) , and melting of caustic soda, charging and molting of sods salt of Bonzol Sulphonate and discharging of melted mass.
- (c) Mr. Edison said to me one day that the fused mass solidly at some time, ture is not kept high enough. It is I want to know the reason, and would like to hear your opinion to prevent such results.
- (f) How much power is required to each melting pot?

#### HEUTRALIZATION

7.

- (a) I have known by your kind answer that you are using 98% Sulphuric Acid diluted to 1.380 specific gravity. I would like to know also the specific crayity of solution of Sodium Phonolate before you neutralize it with said.
- (b) I think that the neutralization is vory important point, although it seems very simple. Is there a special method for neutralization to increase the yield of Phenol?
- (c) How do you detect the end point of neutralization?

- (a) We fuse 1150 lbs. of Caustic Soda with 1650 lbs. of Sodium Salt of Benzol Sulphonic Acid, adding 30 to 40 Liters of water to a batch.
- (b) The temperature during the Fusing Process rises to about 3270 Centigrade. or 620° Fahr. It should not go over 330° Contigrade. The total time for a normal charge is slightly over 8 hours.
- (c and d) I would advise that you, yourself, watch the Fusing Process and the number of batches closely, so as to get acquainted with it. As you furthermore intend to buy a recording instrument and attach it to one of the Pusing bettles, you will get the desired detella.
- (a) Trouble can arise if the temperanecessary to discharge the Pasing Rettle at a temperature not lower than 2500 Contigrade, as otherwise the fused product starts becoming mardened.
- (f) To drive the stirrer in the Pusing kottle by a 3 horse-power motor.
- (a) We do not test the specific gravity of the mixture in the neutralizing tanks. It would be very difficult to got any dependable results in regard to specific gravity, no the latter to changing constantly, and variou according to the more or less dissolved Phenolate, the Phonolate constantly striving to settle down.
- (b) I do not know any special method to increase the yield of memol from the Houtralishr process.
- (c) The operator must be taught to watch the process closely. This being done, we find it cary to avoid mistakes. The Leutralizing is considered as being finished when the evolution of gas -SOg, becomes apparent.

#### . SINTIMATAUK

- (a) I would like to know such composition of Orade Phonol as water, Pure Phonol, higher Phonol and the other impurities.
- (b) How many pounds of Crude Phenol are charged to each still? How many pounds of Furs Phenol can you make from each still for one charge?
- (c) I think that the residue of still after distilled all Pure Phonel and the first running of distillation contain some quantity of Aurs Phonel.

What method are you taking to recover the above Pure Phenol?

- (a) The Grude Phenol contains about 17% of water and about 82, of P. Phenol, whilst the remaining 1% is residue.
- (b) Our large Yacuum Still can be charged with up to 10,000 lbs. of Grade Franci, whilst the small stills take up to 2,000 lbs. of Grade Themol. The direct yield of F. Phenol is about 62%.
- (a) During each charge of our distilling apparatus, we first drive off under atmospheric pressure the so-called steam heads, containing mostly water. In order to avoid say loss of P. Phonol contained in this water we use the latter in our Neutrellring process for dissolving the thomolate.

After the steam heads are driven off we get so-called "vacuum heads", distilled ever under vacuum, containing P. Phonol and some water. Those Vacuum Hoads are added to the Grade Phonol in the next charge of the Distilling apparatus.

The residue remaining in the kottle art the P. Fhomol is distilled over, is stored and will be re-listilled when is stored and will be re-listilled whom we have sceeped of it on hand to dispose of it. A state of the residue of the

- (d) How do you detect the point that P. Phenol begin to distill?
- (e) I observed that the distilling of Phenol become brown. How do you remedy that condition? If there are some methods to prevent such bad results. Diesse tell me those methods.
- (4) The operator of the distilling appearatus must learn by experience how to handle it. Steam Heads should be driven off under atmospheric pressure at a temperature rising up to about 115 or 120 degrees Contigrade, at changing over the continuous co
- (a) Shore is no damagor of gatting colored P. Phenol as long as the operator keeps the kettle and tanks properly cleaned, provided, furthermore, that the Phenol cyretais are not distilled over at too high speed. Not the and received that those made from steel, as the latter are more easily attacked by the Sulphureus

(o) (Continued)

Gas contained in the Crude Phenol, and as even small particles of scale from the steel tanks tend to discolor the Phenol Crystals.

#### ANALYSIS

(a) What materials are you analyzing daily? I would like to know those name and the all results of a few days.

(a) We are testing daily in our Laboratory: lot. Each batch in operation 1 from the Sulphonating pots. The specific gravity of the Bonzol Sulphonic Acid should not be higher than 500 Beaums, there should be no free Bonzol.

Free Bounds.

2nd. Operation 6. Sodius Salt, of
Sensel Suphonic Acid. The Sodius Salt
should be as dry as possible, we allow not
more than a maximum of 4,5 of water, but have
mostly considerably loss. There should, furthermore be an excess of Hag003 of not more
than 15.

574. Sodium Phonolate. We make a tost of each betch coming from the Fusing kottles, taking 170 (grams and noutralizing 1t, allowing as maximum 105 Residue, expecting not less than 50 cubic centimetres of Crude Phonol.

4th. Crude Phonol. From the unsettled Crude Phonol we take 100 cubic centimetres, allowing not more than 4% of Residue.

5th. P. French. We test color and crystalizing point from each batch from the distilling apparatus, allowing not less than 36 Contigrade as crystalizing point. Soc copies of our daily test of January 24th, 25th and Docomber 31st, 1916.

10. The consumption of Sulphuric Acid on Gaussian Sulphuristion of Burst Sode in Sulphuristion of Burst Sode in Sulphuristion or Burst Sode in Sulphuristic Sode in Sulphuristic

The proportions have been settled after making numerous experiments. If we alter them we are not sure of success.

11. I beg to inform you that I am very satisfied, having understood the operation gradually. I was inform\_end of the yelds of F. o. Phenoz 1 is 5.% ib. From one gallon of Bonnol, that is, 60% yelds from Bonnol for the theoretical yeld of thomos! is shout 120% for Bonnol by weight!. I would also yeld from Bonnol is shout 1 would not remove that the yell of yell of the yell

As far as our analysos show, we lookabout

As far as our analysos show, we lookabout

Lindrocatus Salt of Bonnol Sulphonio Acid, whilet

the rest is lost by transferring Sodium Salt

into P. Phonol.

#### 12. MOTORS

(a) You are using individual motor for each machine. I think that this system is very convenient, but I think also that using of summarized mater is cheapen in cost, although semewhat inconvenient. How do you think?

(a) The question whether each machine should be driven by a separate motor, or whether a musker of machines ought to be connected together to one motor, has to be nawared individually in cach case. It has hardly anything to do with the chosical problem.

comparatively life, there excitainly are comparatively life, there excitainly are cases where it is better to commont a manber of modelines to ome noter instead of driving each apparatus by a special motor. In America, however, shows motors and current are change, it supports an extra comparative policy and current are change, it sugaritates motors, in complicate and transmission shafts, which cause more regards and intervention, in jure labovers, not to mention damped and common by segarate and intervention. The product of the comparation of the comparation

Our copies of our ally reports of the 9th, 50th and the reports of the 9th, 50th and the reports of the 9th, 50th and the famous, 1916, , and the second of amount, 1916, , and the second of the material und in the different operations in the Sulphomite, Jining and December of the second of the s

In order to avoid greater losses which might be caused by broken pipes, loading tanks, etc., we make besides the monthly inventory, as a rough inventory every Sunday, comparing the production of the previous week with the total consumption of materials used.

2-ji-1916. M. Kammacheff.

Bourst -

WM.A.READ & CO.

NASSAU & GEDAR STREETS NEW YORK CHICAGO 234 SOUTH LA SALLE STREET

PHILADELPHIA
1921 CHESTNUT STREET
BOSTON
19 CONGRESS STREET
LONDON
6 AUSTIN FRIARS

NEW YORK, February 11,1916

Dear Mr. Mendowaraft:

Confirming my telephone conversation with you I wish to give you the following memorana:

I talked with the "livaukee Coke a Gas Co- and the acrthwestern Iron Company over the telephone this afternoon about the extension of "Ar. Edison's contract for benno! from their expiration to the end of "Job," time that they can extend his contract they made the following statement to me.

They are desirous and intend to do everything they can to take care of r. Nisions requirements, and the only reason they cannot say that they can do this is that their own requirements for bencol in their refining plants are somewhat uncertain, and they are not positive what exact amount they will have available. At present they think they will be able to take ourse of Lr. Misson's entire requirement to the extent of 1,000 gallons per day for the rest of this year, with the possible expectation of a shortage occuring during July and part of august.

They will not sell any bonnel whatever for the second half of this year without first offering it to En. Misson and they will not increase their own consumptive requirement without weighting vry carefully in their minds the offset this his night have on their ability to take correct this this night have on their ability to take correct and as it looks at present will be their only customer, for they will allow all other contracts to expire so that they may be able to give you as much benefic as possible.

WM. A. READ & CO.

Wm. H. Meadowcraft, Esq. -2-

i shall be very glad to keep you informed from time to time as to the situation.

With kind personal regards,1 am

Very truly yours,

Wm. H. Mendowcraft, Esq. Orange, N.J.

CD-JS

WORKS: SILVER LAKE, N. J.
MAIN OFFICE:
EDISON LABORATORY
ORANGE, N. J.

#### ANILINE DIVISION THOMAS A. EDISON

mentos

SILVER LAKE, N. J., Feb. 12, 1916.

Mr. W. H. Meadowcroft,

Laboratory.

Dear Mr. Meadowcroft:-

Much annoyance, delay and inconvenience has been and is being experienced by these divisions due to the telephone service rendered us through the switch-board in the Chemical Works. The business of the superintendents of the plants, Mr. Mason and the office here is being subjected to the convenience of the other divisions, and after consultation with those above mentioned, it has been deemed advisable to install a two-trunk line six extension switch-board here with a connecting line to the Chemical Works, which we can operate without the acquisition of additional help and at no greater cost than now is imposed upon us, but with greater efficiency in service.

If necessary, will you be so kind as to present this to Mr. Edison for his decision in the matter.

Wery truly yours,

Wery truly yours,

Wery truly yours,

Manager,

625 GRAHERO MUNITION MANUFACTURERS' ASSOCIATES tiam Labratory, Hay don't want an Que regard to may be interesting thems of that I have sece 70 cent from alrage was 65 cents & declinet rufg, During the lasgollost received serval in general our sufgo. whom & to supply. This of course is at personal If you with to sufficie a bid of recents, Quiet sur if my of Bugol will for you the preference, all other Things bru Equal. I turn he will not sell for less. The demand is far frester that the Sepths. My delivers will me lagin for at least 3 months Turky your, OS. Swould advise you to his 71 cent at least yeds if first.

Tolund - Thitami

February 12th. 1916.

I am dictating this memorandum simply as a reminder. On February 10th Mr. Takaki telephoned that he had an offer for Koodward Toluol for the year 1917 at a price which would net \$2.85 per gallon, the quantity to be 120 gallons per day, more or less. Mr. Takaki asked me to ascertain from Mr. Edison whether or not he would advise the acceptance of this offer, which had been made in bohalf of the Italian Covernment.

I spoke to Mr. Edison about it, and he said that we could probably get a better price fromDu Font and suggested that I call up h. S. Carpenter, Jr. I did so, and Mr. Carpenter told me that they were not making any contracts for Toluol for the wear 1917.

I told Mr. Edison about this, and asked him whether he would advise Mr. Takaki to accept the other offer. Mr. Edison said that it would be all right to do so provided that Mr. Takaki in making his contractemade them with absolutely reliable and responsible people so that there would be no doubt whatever about the material being taken and paid for. I telephoned Mr. Takaki to this effect on February 11th, and laid a great deal of emphasis upon it.

W. H. MEADOWCROFT.

WITH

all right Arrange with JV Wille Mr. Miller:

Bingey & Smith called mo up on the telephone today and asked if we would accept an order for 10,000 pounds of Iron by Hydrogen, to be distributed in ecual chipments over the remainder of this year. I told them that we would accept such an order at 35 cents. plus package charges. They said they would send the order slong later.

gut usual Clauses.

Mr. Miller:

Enclosed I wer to hand you letter of lowersweightman-Rosengarter Company dated February 12th, together with their order #9/6A for 1,000 pounds of Iron by Hydrogen, to which please gife your kind attention.

For jour information I am also enclosing copy of M. Edwar Masswork at the walls our letter to them of February 5th.

Feb. 14th. 1916.

Mexecton & hobbins, 91 Fulton Street, New York City.

Gontlemen:

Referring to your favor of the third instant in regard to 1,000 pounds of Crystal Carbolic held per day from May let to December 31st, 1910, to beg to say that he hould not care to undertake the guarantee you mention.

Yours very truly, Edison Laboratory.

Feb. 14th. 1916.

United riece Dye Works,

Loai, H. J.

Gentlemen:

SUBJECT: ORTHO-MITRO-PHENOL.

Your fever of the minth instant has been received and had before in liditon. He requests us to say that we are untemplating an addition to our products of ferentiarphenol, Orthonitrophenol, and Tarunicophenol, but just at the moment we cannot say for sure that we will do so. To will device you later on this subject.

Yours very truly, Edison Lacoratory.

STEEL CITIES CHEMICAL COMPANY

SULPHURIC ACID

BIRMINGHAM, ALA. Peb. 14, 1916. your benzol Plant at Woodward.

We beg to inquire what term contract you would want We are supplying the Woodward Iron Co. on term contract about one ton per day of 66 De. Beaume Acid at Is this about the quantity you would want? We are very limited in what we have to offer.

Yours very

E/a

Dominion Iron & Start Company jourd Sydney; Copo Barting

Dowinson

112, St. James Street,

Montreal, Que.,

15th February 1916.

Thos. A. Edison, Esq.,

Dear Sir:

Confirming our message of this date, we beg to advise you that we are preparing contract along the lines discussed between yourself and Mr. Plummer.

Under the existing conditions, it will not be possible for us to undertake shipment of more than 25,000 gallons monthly in all for your account, from now until the end of the present year.

We hope that the documents which we are now working on will be satisfactory, and in the meantime,

Yours faithfully.

McKESSON & ROBBINS EXPORTERS NEW YORK ADDRESS ALL ENVELOPES IQ THE EVEL down a of Krammhaf gets his siedestelleren the Mr. Thomas A. Edison. we can despose to Orange, N.J. it llow Squebes & think Centlemen: We have your favor of the 14th and note that you cannot guarantee to maintain the quality of the CRYSTAL CARBOLIC ACID which you offer us on contract from May to December. Kindly let us know if possible what you will guarantee in regard to quality and oblige Yours very truly. Me Selven are beller and he general Am.

We connect make 9 he general Am.

we counted make 9 he general Am.

com only beller while granding noto

we know not the granding of 9.

we know most the granding metales. FJLicD/HH

#### THE EDISON PORTLAND CEMENT COMPANY



STEWARTSVILLE, N. J. February 17, 1916.

Mr. Wm. H. Meadcwcrcft,

Edison Laboratory.

Orange, N. J.

My deer Mr. Meadcworoft:-

I beg herewith to hand you a letter

from Mr. Frank C. Roberts, which explains itself.

Please take the matter up with Mr.

Ediacn and write Mr. Roberts direct whatever Mr. Ediacn cheeses to say.

Yours very truly,

WSW-RBS

ENCLOSURE: -

Say Reposts Barron was a

Strangelimin in own Employ
who lead by an trying to seth
plans of our Cartalia acid
plans of our Cartalia acid
plant to others, forthe last year
condition for permanence

FRANK C. ROBERTS & CO.
CIVIL ENGINEERS,
TRANS 4. ROBERTS, C. C.
CASE ADDRESS:
STREED, PROJECTION, PA.

REAL COTFICES:

E. C. COR. BROAD AND CHESTNUTSTIN.

PHILADELPHIA, PA., U. S. A.

PHILADELPHIA, PA. February 16, 1916.

MR. W. S. MALLORY.

College Hill, Easton, Penna. 7212

My dear Mr. Mallory:-

I am anxious to learn something of what you and Mr. Edison think of Mr. Leopold Barron, Vice-President and General Manager of the Carbolite Chemical Company, 180 Breadway, New York, N. Y. I understand that Mr. Barron claims to be an expert on Coal Tar and its derivatives and I am told that he states that he has put up a plant for Mr. Edison.

One of my clients contemplates engaging the services of an expert along this line and Mr. Barron has been suggested. If you will be good enough to let me hear from you in the matter, I will be extremely obliged.

With kind regards, I am

Yours very truly.

Jan Tool

TOKIO KORE HOUL 600 \$

Culle Oldderss: MICTISTUR & COLLEMEED. Milsui, N.V. (Mitsui Bussan Kaisha, Gtd.) ---HOURDEN DALNY 074 811 MIINE SECUL AMBURG ELECTION. WAKAMATSU LYON PETROGRAD YOROHAMA TIENTSIN TAIPEN YOROSUKA ANTOHKEN KURE TAINAN DALLAS KWANCHINTU KISHIMA CANTON SAN PHANCISCO GSAKA HONG KONG SWATOW PORTLAND MAGASAKI BANGGON SHANGHAI AMOV 461711711 SOURABAIA MANII A FOOCHOW MODI / V MURORAN REMCHMANG TELLIGIAL CALGUTTA WOMORI SINGAPORE MIZAKO HARBIN Washin UNAGAWA VLADIVOSTOR 25 Madison Avenue; Jan Work February 17, 19/ 6.1 Ą Thomas A. Edison, Inc., Orange, N. J. See My Attention of Mr. W. H. Meadowcroft. Gentlemen:-Mr. Tatsumi tells me that you make in your Phenol Plant the following articles, as the inter-

> mediate products:-1. Soda Salt of Benzol Sulphuric Acid.

> > 2. Crushed Cake of Phenol Soda.

Will you kindly sell us 200 to 300 pounds of

phone 10010 Undison Square

each of the above two for immediate shipment?

Will send your Mr. Meadowcroft the shipping

instructions as soon as you advise me you can spare.

Yours very truly,

210

Munzo Laxan

ALL CONTRACTS SUBJECT TO STRIKES, ACCIDENTS AND CAUSES BEYOND OUR CONTROL FOR ALL BUSINESS COMMUNICATIONS TO THE COMMONY AND NOT TO THE OFFICERS OR EMPLOYES

HERBERT C.SMITH.

## WOODWARD IRON COMPANY

WOODWARD, ALA. February 18, 1916.

D.E.WILSON,

Ih. Thomas A. Edison, Mr. H. F. Miller, Secretary, Orange, H. J.

Dear Sir:-

the gradues herestin statement of account checking the ment of bonnoh, tolled, etc., for the months of becomes and January aggregating 137,376.15. We also enclose statement annuary aggregating 137,376.15. We also make the statement of 131,841.39. We enclose, also, expense bills paid for pour account to lineary Sat amounting to 131,841.39. We enclose, also, expense bills amount of the statement of the statement

obligations due about the 25th and make a special request of you that you kindly let us have your onest for all of the general account and became the control of the seneral account and became the control of the property of the control of the cont

Awaiting your reply, we are,

Yours trul

dew-g

J. R. MYERS

Ronses Point, N. Y.

Malone, N. Y.

Fort Covington, N. Y.

Nyando, N. Y.

Alburg, Vt.

F. W. Myers & Co. CUSTOM HOUSE BROKERS Forwarding and Insurance

AGENTS U. S. BONDED CARRIERS

CUSTOMS AGENTS FOR Grand Trunk By. Delaware & Hudson Co

N. Y. C. Railroad Co. Rutland Railroad Lake Champlain Trace. Co. Quebec, Montreal & Southern Ry. Naplerville Junetica By.

Rouses Point N. y. Feb. 18, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

Mr. Mc Naughton, of the Dominion Iron & Steel Co., telephoned me yesterday that the company had under consideration a new contract with you for an additional supply of benzol and asked whether or not a change in your contract would affect the amount of duty assessed, and I told him that so long as we were paying duty on the wholesale market value the contract could not in any way affect such value; I incidentally inquired as to whether they were making sales for consumption in Canada, and he stated that the amounts were negligible and not in wholesale quantities, therefore it seems to be proper to advance the invoice value to meet market conditions in the United States, making proper deductions for freight, duty and other nondutiable charges.

As you know, we have been making additions to your invoices to make the price at Sydney 592%, and so far our entries have been passed at that valuation, but recently there was a shipment of benzol from the Toronto Chemical Co. which was entered at the port of Buffalo and the Local Appraiser advanced value to 621g, based, as I understand it, upon the value of a former shipment via Buffalo to New York for export to Genoa;

I mentioned this case to Mr. Mc Naughton and he tells me that Mr. Plummer is the President of the Toronto Chemical Co., which is, as I understand, controlling the output of the Sault Ste Marie plant, and that the price 62gr was the deligered price at New York.

A request for reappraisement was filed in this case, the matter came before the U. S. General Appraiser at New York and when the case was called there was no appearance for the importer, and as a matter of course, the advance made by the Appraiser at Buffalo was sustained, and as matters now stand the records show a market value in Canada of 62½y in the month of Nov. 1915.

It is advisable that you keep a very close watch on the market price in the United States, and advise us from time to time, when there is any material change in this price, so that we may add or deduct, as the case may be, from the invoice price to make the actual market price.

Yours very truly, myer-o

Mr. Edison

This is going to be a difficult to thing to center's with. The Good way by to make us pay duty on shoot price. I proposed to pay they on southeast price. Habit I better full this question up to the lawyers Strawn to the gustion up to the lawyers Strawn to the ges, who won the case for in ?

February 19th. 1916 Borger

Mr. Edison:

as per your directions. I have investigated the charges against E. B. Badger L Sons Gympany for the c.anges which were made on the two Phonol Stills in order to make them work satisfactorily, and have arrived at the following conclusions.

The charges due to changes on Carbolic Still in No. 1 plant as shown in Er. Meadowcroft's letter of January 19th are correct.

The charges on Still for No. 2 plant are correct with the exception that one bill for copper pipe from Merchant & Evans for J192.51 was included through a clerical error. By deducting this we have the correct charge of \$1,567.43.

when Citils were received they had each a fractionating column and dephisement on a condensor. After trying them out it was found that the fractionating column was totally unfitted for such work and it was discorded in both plund, butselfore being nowided with dupe, these were later forwarded by Badger people. The column was taken down and dupe fitted in, later it was found that these dupe were not in correctly, then one of Badger's men came one for turplied habor to take columns down again and refit with dupe, then it was found that the duplingsator and column such a column such a column such as a column such

Then the condensor from No. 2 plant was sent to No. 1 plant, so it could be started in operation, and it was necessary to provide an entirely new condensing apparatum for No. 2 Still. Copper coils were purchased for this and a larger condensing surface was arranged for. A large copper pipe with connections to the three new condensors was made and installed.

In addition to the above the bottles broke rapidly. These had to be replaced by a different type brase bottle. It is very evident that the Badger people were not familiar with the distillation of Carbolic acid, for if they were, I cannot understand why they should have provided the fractionating column dephlegmator, and the very small condensor. As I understand the strangement, the Badger people were to furnish two Stills caspable of producing 4,000 pounds each of pure Phenol per day. The Stills as received were entirely unfitted for this work and it was necessary to make the changes montioned above and make then quick so as to start producings somitioned above and make then quick so as to start produc-

It seems to me that these charges for labor and material are a small part of the actual expense you were put to on account of the failure of the Badger people to furnish Stille in accordance with agreement.

yours Duny Tonly lo HMason.

Bauzac

lir. C. A. Edison.

February 21, 1916.

Further with reference to bound submitted by Mr. W. A. Otto of Sittaburg:

ir. Otto, while advicing that his people would not consider a contract for 1915 only at any vice, new offers 1,000,000 callons at 60f. Fittsburgh, for delivery before September 1, 1917, at the rate of approximately 2,000 gallons see day convening Levil Lat. I have stated to Er. Otto that if you are interested in this we will communicate with him again.

..... Thory

ACT. ..

Meadocraft
Has Haffman closed his Bengal
Contract if so drop this
I not we well start negations
on this

OFFICES: 45 Park Place NEW YORK

MERCK @ CO

MANUFACTURING CHEMISTS

NEW YORK. Feb. 21, 1916.

Branches ST. LOUIS MONTREAL RAHWAY, N. J.

Main Works G/WFC/

Laboratory of Thos. A. Edison.

Orange.

New Jersey.

7680

Gentlemen: -

Referring again to our recent correspondence regarding PARAPHENYLEMEDIAMINS, we regret to state that the sample submitted has not not with the approxi-of our Laboratories, imagement as it was very much discolored and the form materially different from the article formerly imported from Abroad.

In order that you may be familar with the form and quality of our product, we will send you in the course of a day or two a sample which we would ask you to kindly examine and advise us at your convenience, if it would be possible for you to supply a similar article.

Very truly yours,

MERCE & CO.

Attested &

Janear Chu you Cristaleys from Bengal of otherwise & make it ilike March carryla without which care

7435

birbolic

Feb. 22nd. 1916.

E. B. Badger & Sons Company, 71 fitts Street, Boston, Mass.

Gentlemen:

I am affeid you will think we are long winded in our investigation of the matter of the two Carbolic Stills. It is almost unnecessary, I think, to tell you that we have been very, very busy, and it has been difficult to get the time to investigate the matter.

At last we are ready to report to you, and I enclose herewith copy of a report made to Mr. Edison by Mr. t. 4. Hason, one of our encincers.

As this report is self-explanatory. I shall make no comment on it.

Yours very truly,

Assistant to Mr. Edison.

Enclosure.

Steel Cities Chemical Company, Birmingham, Ala.

Gentlemon:

I am in receipt of your favor of the 14th instant, concerning Sulphuric Acid for my Bonsol Plant at Woodward, als.

We only use a little over threequarters of a ton per day of 66° Baume Acid. If it would be agrocable, I would like to contract at thic rate for the remainder of the present year, say from April 1st, provided, of course, that a satisfactory price can be quoted.

awaiting the favor of your reply, I remain.

Yours very truly,

EASTMAN KODAK COMPANY ROCHESTER, N.Y.

Condelie

OK het them have it February 23,1916.

Laboratory of Thomas A. Edison.

Orange, N.J.

Gentlemen:

Will you please inform us whether you can supply for prompt shipment 225 pounds of Capholic Acid, quoting price?

Yours truly.

EASTHAN KODAK COMPANY

My Edward we can and and green's shall go made and shall be and to be and to

ALLAN R. BROWN

RAUSS & HEDGES

February 24, 1916

Laboratory of Thos. A. Edison,

Orange, New Jersey.

Gentlemen:

Attention of Mr. Meadowcroft.

We are in receipt of your letter of the SSrd instant enclosing copy of letter received by you from Hemara, F, W. Hyers & Co. in the matter of the value at which your shipments of benzol should be entered for customs purposes.

ELEPHONES 2357 BROAD

You wish to be advised whether you should instruct Messrs. Kyers & Co. to enter your importations of bemool at the spot price or the contract price of bemool, stating that the spot price at the present time is anywhere from 70% to 90% per gallon, whereas the highest price that you have paid for bemool on time contract is 65% per gallon.

The revenue laws of the United States provide that duties must be paid upon the usual wholesale celling price in the market of the country of exportation (Canada), if such market exists. From the statement made by the Dominion Iron & Steel Co. to Mr. Myers, it would appear that there is at present no market in Canada and that the calc to the Toronto Chemical Co. was not a wholesale transaction.

Under these circumstances it would appear that this particular provision of the Tariff Act would not govern and

recourse must be had to the price at which such or similar imported benzol sells at wholesale in the markets of this country, due allowance by deduction being made for duties, cost of transportation, incurance, and other necessary expenses from the place of chipment to the place of delivery, and a profit not to exceed 8% and a reasonable allowance for general expenses not to succeed 8%.

This provision of the law has reference to spot prices, and we think it would be well for you to savise Mesers. F. W. Myero & Co. at least weekly of the variations in the American celling price of spot benzol, so that they may make the necessary deductions allowed by the statute and enter your merchandise accordingly.

We trust that the above answers your questions completely, and remain

Very truly yours, Harry

JFS/M

## American Oil & Supply Co.

#### Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark, N.-J. Feb. 25th, 1916.

Dear Sir:

We are in receipt of a letter from a use must be two we would support to whom we sold 9000 lbs. of your aniline oil under date of Jan. 17th, which reads as a colorest.

of Jan. 17th, which reads as follows:
"We beg to advise that this oil, upon analysis
by Stillwell & Cladding of New York, showed 605 water, which

by Stilwell & Cladding of New York, showed mon where, which can cutcher and wisen is unsatisfactory enemally objectionable or unusual they day set that should they be obliged to gdjust the matter with their foreign buyers they will have to look to us for settlement, in which cane we, of course, would look to your good selves for adjustment."

look to your good selves for adjustment."

It is our opinion that the 60% mentioned above is a typographical error and what they actually mean is 6%.
We are writing to find out whether this is 60.

In the meantime, may we ask that you let us have an expression of your opinion regarding this matter?

Yours very truly.
American off a supply co.,
AEJ/T

(waterser on this

Recent for the possible them

Wist b

Rehim William

Pobruery 25th. 1916.

Mr. Edison:

It looks to me as if it were going to be a pretty stiff proposition to keep P. W. Hyers & Company advised of the American selling price of imported spot Bensol. I suppose the only reliable place where we could obtain the information would be the Custom House, but even that would not be practicable, as there are a great many ports of entry in the United States. I don't suppose that the Traceury Department at Leshington (which controls the customs) would know promptly enough.

Even if Benzel were being imported, and even if we could get the price promptly enough, it might be lower than the market for spot american Benzel, and the United States appraisor might raise the valuation on us on the basis of the market for american Senzel.

I thank I will write Strauss & Hedges again, if you approve, and put this up to them.

MEADOWCROFT.

With

Ok findout how we can do it when probably no beneal is unantally Marie Conflicted have an Soult & Marie Conflicted have an

Feb. £6th. 1916.

Strauss & Hedges, 12 Broadway, New York City.

Gentlemen:

that it is raing to your fover of the Ath instant, let me sept that it is raing to be suther a sifffull supposition to keep F. ... Agers & Company advised of the American solling price of imported spot Beneal. The difficulty would be to obtain the information promptly, so there are a great many ports of entry in the United States. I cuppose the information could be obtained from the Pressury Department to be information could be obtained from the Pressury Department to be interested that the interest of the importation had been made, and, therefore, not sufficiently prompt for the purpose. We have no positive information of any Beneal being imported into the United States, and could represent the country. The last the English Government would allow it to leave the country and come over here, the price might be lower than the merket for merican open Beneal. If we had made an entry on that besite, the United States appraiser might raise the valuation on the besite of the merket for american open amenda.

You will see from the above where the difficulties lie, and Mr. Edinow will be very flad if you will kindly advise us what will be the safe thing to do.

There is a car of Benzel on the way to us now from Sydney, Hove Scotia, so we must act rather promptly on our part.

Yours very truly,

Assistant to Mr. Edison.

Mayle Edison -Some purch may agent 1 Fourtery 26,

American Agricultural Chemical for Philadelphia, 'a.

Donr Ara:

I om advised by our Carbolia Division that on Seb. 17th they received from you Willeddiplat test on Hr. 19, simpling bill for which called for 95,600 lbo clamber acid. To however found it impossible to empty this car thereughly became the residue consisted of a kind of rest, the second of which the residue consisted of a kind of rest, the second of which least part of this residue on the tid do not receive house the residue appeared to be continued and they darke on that the residue appeared to be conthibuted anyway. Hence they had to return the car in the above described condition but we do not know what weight will remined condition that we do not know what weight will remined to

Will you kindly investigate this matter and let me hear from you as early as constille with reference to the weight of material returned and we will be glad to have proper credit monormalum to adjust the situation.

Yours very truly,

THOMAS A. EDISON, 1110.

ACE.S.

Purchasing Agent.

Copy to Mr. Meadowcroft V

Feb. 28th. 1916.

Eastman Kodak Company, Rochester, N. Y.

Attention of Mr. Markus.

Gentlemen:

Your favor of the 23rd instant has been received, and in reply we beg to say that we can supply for prompt shipment 225 pounds of Carbolic acid at (1.00 per pound.

Awaiting the favor of your order, we

aro.

Yours very truly,

Edison Laboratory.

Howiman

Feb. 28th. 1916.

Toronto Chemical Company, 18 Wellington Street East, Toronto, Canada.

#### Gentlemen:

I presume you attend to the selling of the Bensol from the Stult Ste. Marie Plant. If you are not already contracted up to the full limit of production I would like to be advised, as I am in the market for some pure Bensol.

Yours very truly,

All communications should be addressed to "Commanding Officer, Picatinny Absence, Dover, N

POST OFFICE, TELEGRAPH

FREIGHT ADDRESS. PICATINNY ARSENAL, N. J. ON WHARTON & NORTHERN PAU POAD

PICATINNY ARSENAL. DOVER N. J.

Madenary for character for the form

Thomas A. Edison,

Brange,

New Jersey.

Sir:

Referring to your contract for furnishing this arsenal with 5417 pounds of Phenol per month; we have recently received an inquiry as to the possibil-ity of increasing our output of the explosive of which your phenol is a constituent material.

Will you kindly inform me whether the 42 is any prospect of your being able to furnish an additional quentity of approximetely 20,000 pounds per month, for say one year. If there is any prospect of your being in position to surply this quantity will you kindly state about when delivery could be begun and approximately what price per pound would be charged.

This inquiry is entirely tentative as no appropriation has yet been made, and as certain propositions contemplating alternative methods of producing the Department's high explosives have been presented in such a manner as to necessitate some comparative studies of costs, as well as feasibility, before a decision as to methods of procurement can be made.

Respectfully

At.Gol., Ord. Dept., U.S.A., Commanding.

JOYES - John 1

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO J. P. MORGAN B. CO. EXPORT DEPARTMENT.

#### J. P. MORGAN & COMPANY

EXPORT DEPARTMENT
28 WALL STREET

TELEPHONE HANOVER SIBO.

NEW YORK, February 26, 1916

Thomas A. Edison, Esq.,

Orange, H. J.

Dear Sir:

We have duly received your letter of February 22nd in regard to the contract between yourself and His Eritannic Lajesty's Toverment for the output of toluel from your plant at the Cambria Stool Company's works at Johnstonn, Pa.

We do not understand your statement that this contract expired on the fath instant. It was our understanding from correspondence and conversations had with you no this subject that the plant in question was not in operation until after "ay let, 1915, which understanding would seem to be confirmed by your letter of August 18th, 1915 to 1r. Stettinius in which you stated that your entire output until May let, 1916 was taken under your contract with the "ritish Toverment. We shall be glad also to receive further savies in the matter because our records show that no deliveries were made under the contract until late in June of last year and then only in small quentities.

Awaiting further information from you in the matter.

we are.

Very truly yearly EXPOS TO PROGRAM OF THE STATE OF THE ST ALLAN R. BROWN

CLAUDE S. HEDGES

STRAUSS & HEDGES 12 BROADWAY

NEW YORK TELEPHONES 2387 BROAD

February 28, 1916

Laboratory of Thomas A. Edison,

Orange, N. J.

Gentlemen:

Attention of Mr. Wm. H. Meadowcroft

We are in receipt of your letter of the 26th instant. and were today favored by a visit of Kr. John R. Kyers with whom we discussed in detail the benzol situation.

From all the facts that we have been able to adduce. we feel quite confident that you are perfectly safe in continuing to enter your benzol at the flutiable value of 59-1/2# as heretofore.

In the meantime Mr. Myers will attempt to get further detailed information from Er. McNaughton of the Dominion Iron & Steel Co. and will communicate such facts to us if, in his judgment, the facts warrant any change in your present practice.

JFS/M

Data Competitive contest with a paper on the cubjects" I would like very much to get your answer on the following

I would like very much to get your answers on the following questions: Will you ontinue to manufacture Carbolic acid after the war closeofis it cheaper to manufacture at home than to import? To you believe that a potective turiff of SO, ad valorem and 7½ cents specific duties would compensate the country thru the development of the coal tar industry enough to off set the rise in the price of textiles? Will the home manufacture of such intermediates as Phenol and Toluol furnish a stronger banks of prepareiness for this nation in time of war? Tould it be an economic measure to have these factories running in time of peace as dye factories?

Am enclosing stamp to cover reply. Thanking you in advance for any favors you may show.

I am

(7538)

Yours truly,

9, John L. Suenther.

Banborn Ave.,

Mitchell,

S.Dak.

Mind Oxeder free Elevenical
Com have and, almost ingling
buil ansenica - The ferret
Destroyate of decent of from
the total Common Mill prompter
10000 or alcooping it and
no arresis

2/29/16



mr. duck:

 $_{\perp}$  understand that the satisfies toperthent till come under join jurisdiction.

Le have a frequent interemente of letters and comparants setted this effice and the Editor chemical colm. Curboile Division, million tiens and should that it at their back. Our memorands are usually tiled up in envelopes adviced to the proper formest in these various divisions and minute. They are then delivered to the Salling Popartment for distribution.

Ine delege is delivering these setters and memorishs have become simply outregour. It is not tekther three days to get a monorandum from this office to the hence or initial Plants. We have carriedly escaped periods loss to in Ridicon by removable of these delays. For instance, but faturday i tent a removable of instructions to the unified heart everying a transmission amounting to over \$1.00. At this writing (II o'clock Thomday morning) this memorandum has not jet soon received.

. H. shabble  $c_{\rm E}(PT)$ 

You better Cheak your Dynometers on few on to see They are not off

coant to 6 Julphonetion should nor your 4600 lb dry Benzine Sulphonile Soda With 6 sulphonahous this all your Bengol is no

phone theo to Many Mason Your yields of Phenol do not check up with fusions at all You should in 4 days. have got 31000 phenol distilled, whereas the neutratizations show you only get 32331 Crude as this is only 71% pure

Howare Looing concernationer. 28% -

Also want to Call your allewon to ancel ancount of white salt you are extling - only 6% Whereas I Chink you ahourd get 10% or more batter watch this -

Watch you bewoolaler for Saluration Tanh front Rada

4600-lbs Pkenguseelfe of Soda per Sulfonation included is white solt 3600 lbs of pure Benzuesulpondo Ma gives 1550 les of You lose some to

**Edison General File Series** 1916. Chemicals (E-16-16) March

A. DUNCAN REID, SECRETARY AND



EVARTS-TREMAINE-FLICKER CO. GENERAL AGENTS BOS-813 WILLIAMSON BLDG.

PHONES, BELL MAIN 2183 CUY, CENTRAL 1934

# GLOBE INDEMNITY COMPAN

Day we become the work of the sent of the Harch 1, 1916.

Mr. Thomas A. Edison, Inc., Orange. N. J.

Gentlemen:

We understand that you manufacture coal-tar crudes and anilined dyes, and we presume that in the process of manufacturing, you use a vessel known as a nitrator.

We are interested in nitrators from an insurance standpoint, and are anxious to know something about the hazards connected with the use of these nitrators. Insurance Companies generally look upon these nitrators as a very hazardous proposition, but our personal views are comewhat to the contrary.

We believe the serious explosions that have occurred in connection with their use, have been largely from outside causes rather than from inside. In other words have you known of any of these nitrators to blow up, so to speak from gases, or causes generated from coal-tar dye stuffs.

Any information that you might be able to give us on the subject would be appreciated.

Yours very truly,

THE EVARTS-TREMAINE-FLICKER CO.

JWH/DS

American Oil & Supply Company, Oils, Greases, Acids, Chemicals, 52, 54, 56 Lafayette Street,

Newark, N. J., March 2nd. 1916.

Mr. Thos. A. Edison, Orange, N. J.

Dear Sir:-

Referring to the delays in deliveries of Acids and other raw materials since October of last year, we beg to say as follows:

As you are aware, there was a tremendous disturbance of the capacity of the railroad to deliver freight during Novamber and Docamber, 1914, and also during the two months of this year. This was due to the fact that the railroad lines were congested with freight that could not be delivered because their terminal tracks were filled up with an enormous number of cars containing war munitions and other materials for export, which could not be discharged because of the lack of ships to take them away.

This congestion has been so great during the last four months that a great many of the reilroad companies ere obliged to lay embargoes and they would not receive freight at a great number of points because they could not possibly make deliveries.

This railroad congestion and these embargoes during the last four months have seriously inconvenienced us and all other manufacturers, all of whom were unable to obtain the raw materials necessary for the manufacture of their verticus commodities.

Heither, you, nor we, nor any other manufacturer could possibly have done anything to make the conditions any better, and subsequently we have all had to suffer for the above reasons.

Yours very truly, (signed) wm. F. Hoffman. Treas.

### A. M. WOOD & COMPANY, INC.

MELTING STOCK LOW PHOSPHORUS SCRAP, ORES

IRON AND STEEL

RESIDUES SPECIALTIES

KEYSTONE TELEPHONE CON BELL TELEPHONE CONNECTION

SUBJECT

COMMERCIAL TRUST BUILDING PHILADELPHIA

W. H. Meadowcroft.Esq. Thomas A. Edison, Esq., Orange, N. J.

Dear Mr. Meadowcroft:-

A territory of the standard of I beg to refer you to the conversation ! had at your Office relative to your Residue from had at your Office relative to your Residue from Borings used in your Antime Plant, and advise that we Borings used in your Antime Plant, and advise that we related to pay the freight on two or three cars. They will payes nothing for the sendige, but will take a chance on the freight. We would suggest that you order two battleship care loaded at your earliest

convenience, and you may turn them over to the Agent at Silver Lake, N.J., for disposal orders from us. We have reason to believe that after We have reason to believe that after the Furnace tries out this smudge, that they will be able to make a price on your entire production. They inflows us they have used the residue from some other fine the state of the state of the state of the state of the material was insufficient to pay even the freight we think yours averages better; it is at least worth a trial, and in view of having committed ourselves in the premises, we trut this matter will have your best attention, and we now anticipate your advices when it is possible for you to ship the cars.

With best regards and wishes,

Respectfully yours.

ajh/hes

Many thanks for the checks. We think from now on your Accounting Department will take good care of us. TELEPHONE JOHN 6248

# T. J. PARKER

# CHEMICALS 100 WILLIAM STREET

NEW YORK

(7539)

March 6, 1916.

Mr. William H. Meadowcroft, C/o Thomas A. Edison, Orange, N.J.

Dear Mr. Meadoweroft:-

Day we have no

trouble in producing father

berger, who is a son of Sulzburger the pecker, and a skilled chemist, saks me to bring to the attention of Mir. Rison a method that he has devised for the production of Morallie Mirkel in a finely divided condition as fearer from its Salts, as for instance the Sulpate of Mickel. Recognition

He uses Hydrazin. Hydrazin has as Hydrazin has as Hydrazin, and I sm informed is very efficient.

Dr. Sulzberger's invention applies to the manufacture of Hydrazin, which he claims to be able to manufacture very cheaply; in fact, at a nominal cost.

If then the production of Metallic Nickel from its Salts in a very finely divided condition would interest Mr. Edison, I would like to take it up with you further. If not, please advise, and I will tell Dr. Sulterger.

FURTHER: Dr. Sulsberger states he can produce a mixture of Metallic Copper and Metallic Mickel in this very finely divided condition, which may also interest Mr. Edison.

Yours very truly.

TJP: CH.

V. SPain

Mr. Edison

Darrett Mife Co. called tes this morning cure asked if we wanted any open Benjat. I said no but we might be whenter in some contract benjat. They said they might be able to bet us have some. I said we would bet them Know today or tomorrow.

Meabowered hach 1/16

· ( 100 (2/4

### [ATTACHMENT/ENCLOSURE]

Bause Remot Sept 1 to 3/6/16 ~on. 87.622 gab Milwante C+ G. 122.933 " Ina 134.257 46. 783 90% 14. 765 Woodward Inn Johnstown The following is the quantity delivers from Sofe 1 to march 4 - reduced to days! Johnstown - 333 gals a tay Dominion - 591 Moosevend. 843. Milwautec - 138 " " " " Jolac 2505 gallow a day from Sept. 1 to medich )

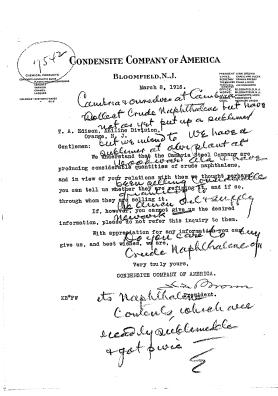
## [ATTACHMENT/ENCLOSURE]

# Benzol

| Beingot from our plan     | do er u   | ider | Cor | knot. |
|---------------------------|-----------|------|-----|-------|
| the can count on felle    | eveny.    |      |     |       |
| From now unlike of        | frue 1"   |      |     |       |
| Johnstown                 | 333       | galo |     | iay   |
| Noodwaret                 | 843       | "    | "   | 0     |
| America Cinetalina newten | 1.ml; 833 | *    | "   | *     |
| milwantes                 | 1000      | . "  | "   | "     |
| Milwantece Jolac          | 3,009     |      | *   | *     |
|                           |           |      |     |       |
| From apric 1 to June      | 1.        |      |     |       |
| Johnstown                 | 333       |      |     |       |
| Moodward 1173             | 843       | "    | "   | "     |
| Dominion                  | 833       | "    | "   | "     |
| milwanter                 | 1000      | 4    | "   | •     |
| Hoffman (new contrast     | 1000      |      | ••  |       |
| . 7/                      | 4.009     |      |     |       |

## [ATTACHMENT/ENCLOSURE]

| June 1 to July 1   |                  |
|--|------------------|
| Jeliustour   | 333 gals a day   |
| Woodward   | 843 " " "        |
| Deminion   | 633 " " "        |
| Milwaukec  | 600 - " " "      |
| Hoffman  | 2609.            |
| Under the new control we will<br>get the other 400 gallows from<br>Milwander   | 400              |
| July 1 to Dec 31   | 3000             |
| Johnwhown  | 333 gals a day   |
| Noodward   | 843 . " "        |
| Dominion   | . £35 " "        |
| Hoffmon Milwander  | 1000 " "         |
|  | 3009             |
| Beizol needed  | gals a day       |
| #2 Phonol 1650   |                  |
| Kammer hoff 1352   |                  |
| Witness or the same of the sam | s gallons on the |



N. Ott. 51.

· ADDRESS NAVAL INSPECTOR OF POWDER, EAST COAST,

OFFICE OF NAVAL INSPECTOR OF POWDER, EAST COAST,

AT Post Office Building,

Jersey City, N.J., MAR -8 1916

Subject: Phenol - method of packing.

Sir:-

 When the Inspector last visited your Works, he found the phenol, menufactured under Cont. No. 28233, for the Mary Department, packed and ready for shipment, except for the crating. In other words, the drums were sealed.

2. The drums harstofore, have been seeled by soldering over the fillings hole, in one and of the drum, a sheet metal disk. The drums which the Imspector selected for sampling were so seeled on his arrival, and were opened in his presence. Imspection showed a few drops of solder in the phenol, under the filling hole, of each of the cans which had been opened.

- piorate, the Inspector considers the presence of solder in the phenon in highly objectionable, as this solder, composed partly of incidence and a solder composed partly of incidence and is produced to the manufacture of th
- cided that as the phenol existed in a hard crystalline form, that the only object of sealing the filling hole was to proven foreign matter getting into the drums, and that wooden plugs firmly driven at the filling hole would arrower the purpose quite as well as an infinial method of sealing. Mr. Kemmerhoff agreed to seal the came in this meaner in the future.
- 5. The Inspector has reported his action to the Bureau with the statement that in the future he would reject any phenol sealed as heretofore, and has today received a letter from the Bureau upholding him in this matter.

Hemberly.

225-E

Respectfully,

Lieut.Comdr. U.S.Nevy, Nevel Inspector of Powder, E.C.

Mr. M.R. Hutchison, c/o Laboratory of Thos. A. Edison, Inc., Orange, N.J. ALL COMMUNICATIONS SHOULD BE ADDRESSED TO J. P. MORGAN & CO., EXPORT DEPARTMENT

#### J. P. MORGAN & COMPANY

EXPORT DEPARTMENT

23 WALL STREET

TELEPHONE HANOVER BIBO

NEW YORK, March 8, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

Dear Sir:

We have your letter of March 2nd, and beg to state that we are unable to accept as final the statements made therein. From information that we have received we were under he improach that your plant was not in operation until May, 1915, or later. Furthermore, at no time, so far as our records show, did you deliver even approximately the amount of tolund you agreed to deliver, namely, 350 gallone, more or less, per day until an addition could be made to your plant, and 480 gallons per day after such addition was made, which was expected to be about 40 days after March 1, 1915. As is necessary that we advise our principals fully concerning As it the status of this contract, we request you to give us at once a detailed statement of the information and facts on which you base your statement that the plant began operation on February 23, 1915, and also a statement of its full capacity at all times during the time you consider it was being used for the purpose of making toluol for the British Government. This statement should give us sufficient facts as to the plant itself and the number of men you had engaged in working in it, so that our representatives can determine accurately both the capacity of the plant and the extent to which the capacity was utilized. Will you please give us also a statement of how much toluol the plant can produce delly at the present time, so that we may at the same time advise the Covernment at what rate you could continue to make deliveries under the contract, and how long it would be before the total quantity which you agreed to deliver might be delivered.

We talked this morning over the telephone with your Assistant, Br. Headowcroft, asking that he arrange that either you or hisself one see the in our opinion this would be the easiest and best way from both your point of view and ourse of handling this situation. Mr. Headowcroft at the time was not disposed to adopt this course. If on reconsideration he should be inclined so to do, we would be very glad to see either you or him.

Yours very truly,

EXPORT DEPARTMENT,

Ander

March 10th. 1916.

### Mr. Meadowcroft:

## ANALYSIS OF IRON OXIDE OF ANILINE PLANT.

Total 99.344

JOHN V. MILLER.

Mr. Edison He mederical

This is new present to be a few that the took from Ancester that the took from Ancester that the took from the first the

Earch 10th. 1916.

Clobe Indomnity Company, Cleveland, Ohio.

Gentlemen:

I have received your favor of the first instant, in which you refer to the procoss of mitrating in the manufacture of aniline wil, etc.

Let me say in realy that I have several chemical works, and that we have made thousands of nitrations without any accident. Yours very truly,

March 18th. 1916.

Mr. A. J. Hofmenn, Scoretary, A. M. Tood & Company, Inc., Commercial Trust Building, Philadelphia, Pa.

Dear Er. Hofmann:

Please excuse the delay in replying to you fever of the third instant concerning the residue from the Iron Borings
and in our Anthine Flant. Fince I can you
on the subject, there has opened up a possibility of utilizing this taterial for other
purposes, so I small so unable to ship you
the two battleship care at the present time.
It seems possible that we may find a profitable opportunity of utilizing this by-product.

Yours very truly,

Assistant to Mr. Edison.

: Calle Address Hitsui, MY MINISTUL & CO. MANUED.

MIMSUH& CO, IIIMII EBB, (Mitsui Bussan Haisha, Ltu)

TOKIO N YOKOHAMA Y YOKOSUKA KOBE POSAKA P NAGASAKI S MOJI P NAGOYA NAGOYA NUCHINOTZU P

TSURUGA

MİİKE
WAKAMATSU
KARATSU
KURE:
KIBHTIMA
SASKBO
MAIZURU
MURORAN
AWOMORI
MIYAKO
SUNAGAWA

OTARU SAPPORO TAIPEH TAINAN CANTON HONG KONG SHANGHAI NEWCHWANG CHOSHUN HARBIN VLADIVOSTOK DALNY
TIELING
TIENTSIN
CHEFGO
HANKOW
SWATOW
FOOCHOW
TGINGTAU
DEKING

MOUKDEN SEOUL CHEMULPO ANTOHKEN KWANGHINTU BANGKOK RANGOON SOURABAIA CALCUTTA SYONEY

LONDON HAMBURG LYON PETROGRAD DALLAS SAN FRANCISCO

PETROGRAD
DALLAS
SAN FRANCISCO
PORTLAND
MANILA
BOMBAY
SINGAPORE

25 Madison Avenue

New York March 10, 191 6

Thomas A. Edison, Inc., Orange, N. J.

Attention of Er. T. H. Meadowcorft.

Dear Sir:-

We are in receipt of a letter from Germania Hosiery Mills, copy of which we are enclosing herewith, and which is self-explanatory.

We are simply transmitting the same over to you and will await your instruction.

Yours very truly,

Meadocraft Say we do not understand his letter The aid is the same at all times he must be using something a Chemical he must be using something a chourged by white get the black that those attention to the fact was attention to the fact was attention to the fact was attention to be and or rooms with I him yended in is and or rooms that I him yended in a creat to all the second or rooms

will cause the digoto turn blue also that all condine oid works the digoto turn blue change of clothes so they never a go home in the clothes they were in the factory + they are made to work they her factory + they are made to work their hours to thoroughly before soling their hours all

Audine works have broable with poisoning of their men in summer because the Vapor of andme comes of the oil strong when Hat of his days room should be as Cold and parentle groatly Ventelaled

# [ATTACHMENT/ENCLOSURE]

COPY

MITSUI & Co., LTD., NEW YORK

March 8, 1916.

IMPORTANT

The Mitsui Co., New Yark City.

Gentlemen:-

We beg to inform you that drum of 0il No. 713 containing 445 pounds of Aniline Oil was very unestisfactory. It does the work all right but the action of the chemicals is altogether different. In my knowledge of dyeing it must be the Cynate of Pottasium which reacts in oxidation, and makes all hands sick. They are gotting blue lips and the eyes fall in and after a short time they have to give up working on same. I thought I would let you know in time as this is very dangerious to the help and if it should get out amongst Government Mill Inspectors in my opinion they would get after me for using all these chemicals at once.

Your oil has been very good and have had no complaint before from the help.

Please let me know what you can do in the matter by return of mail, and oblige,

Yours very truly,

GERMANIA HOSIERY MILIS,

(signed) Harry Saefeit.

JOKICHI TAKAMINE JOKICHI TAKAMINE, JR. EBEN T. TAKAMINE

Takamine Laboratory (Inc)

Equitable Building

New York

BUSINESS DEPARTMENT

Dear Sir:-

Thos. A. Edison, Inc.,

urange, H. J.

Inc.,

Attention Mr. L. Z. Messagowordt to

we have before us your letter of Sept. 27th, 1915 regarding Acetanilid. You stated at that time that you were not in a position to quote on the article but felt you would be able to supply the trade after January, 1916.

we would like to get your figure on a contract for one ton per month for six months. The U.S.F. Crystal article is preferred.

Thanking you for a prompt reply, we remain,

very truly yours,

TAKAMINE LABORADORY, 1NC.

JFR/U

Mon there were the

there it is a week.

ment stout

1745

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### COPY

# CAMBRIA STEEL COMPANY Office of the Comptroller

Johnstown, Pa. March 13th, 1916.

SUBJECT: - Sales - Shipments, Toluol.

Dear Sir;

In compliance with request contained in your letter of the loth instant, we are pleased to advise that the following shipments of Tolucl were made from the Edison Bensol Plant at our works from the beginning up to the present time:-

| Date of Shipment   | Our Invoice No.  | No. of Gallons   |
|--|--|--|
| 6/18/15<br>7/6/15<br>7/29/15<br>7/21/15<br>6/25/15<br>9/18/15<br>10/21/15<br>11/25/15<br>1/14/16 | K-889<br>K-1058<br>K-1298<br>K-1232<br>K-1661<br>K-1914<br>K-2560<br>K-2760<br>K-171 | 2 916<br>2 867<br>2 542<br>23<br>3 664<br>3 192<br>4 406<br>4 936<br>4 026 |
|  |  | 90 579   |

Trusting this is the information you desire, we are Yours truly.

CAMBRIA STEEL COMPANY,

H. W. MCATEER R.J.M.

comptroller.

То

Thomas A. Edison, Esquire, Orange, N. J.

Carbolic Weadowraft botter arrange so they Mr. Edison:-We should have larger deliveries of butors were Phonol from Mr. Kammerhoff in order that we may carry a larger stock of Resin on hand. At present we have about 10 Runs ahead of The Resid our requirements, but this quantity does not give us margin enough to make our Tests to determine whether the Resin can be used for Varnish. We have approximately 17000 Lbs. of Recovered Phenol, which is now being tested and which if O.K. will enable us to increase our Stock of Resin without drawing on the Phenol Plant for New Stock, but if it is found unsuitable for the Manufacture of Varnish, we may experience some delay in obtaining the proper Resin from the Runs on hand. We should have at least 20 Runs on hand to test to prevent any delay, and as Mr. Mammerhoff will not increase his deliveries without your sanction, I would recommend that he be authorized to deliver 10,000 Lbs. of Phenol in excess of present deliveries, in order to give us a safe margin to work on. 7117 Marson 14 Delone 17000 las jus . ... the set was a standard to the make Resent must for next his weeks to her The all Men him measures it wellend trading it test all Min his many many to it william some chard of ask to Mars the law some chard of ask to Mars the law some chard of ask to Mars the law to make to make to make the for Turnish Missey and art along with a region of the formal with a gart along with a course

March 14th, 1916

Mr. Emery:

at various times to mave had sample lots of crude Jenzol distilled by Mr. Harmerhoff in our Jenzol Still at the Carbolic Bivision.

then crude Sensol is distilled, to obtain several other products, such as Sensol Heads, Sensol Lesidae, Tolack Heads, etc. These are adected for dice, for contain purposes, in place of Sensol, which is ased by in. Behr in the manufacture of blue amberol records, one by the Storage Sattery Company for various surposes.

I had sumples cent to me of the residues obtained by Mr. Kammerhoff, and cubmitted them to Mr. Hehr and Mr. Backman to see if they could use them. These residues are as follows:

| Zind of material | Drum no.            | Contents not lbc. | Total lbs. |
|------------------|---------------------|-------------------|------------|
| Benzol Hoads     | 141<br>87<br>25049  | 765<br>194<br>683 | 1582       |
| Heavy distillate | 3                   | 272               | 272        |
| Benzol residue   | 8997-A              | 798               | 798        |
| Toluol heads     | 8132-B<br>££<br>133 | 737<br>744<br>773 | 2214       |

Er. Hohr says that he can use drums al41, 67 and 25049. Er. Suchman cays that he can use the other drums named in the list.

Lill you please, therefore, have an order issued to ir. Kammerhoff to seed up to ir. Helpf drums 141, 67, and 25049, and to ir. Sechmen on account of the Helicon Storage Settery Company drums 3, 2997a, 81328, th and 153. These should be billed at the same price as if they were Benzel, which //r. Kammerhoff is in the habit of surplying to both divisions.

W. W. MEADOWCHOFT.

#### Purchasing Service Department Memorandum No.

6 autorie

March 14, 1916.

9

Mr. Kammerhoff.

Referring to correspondence with Grasselli Chemical Co. in re shipments of milphuric coid, thoy claim that their chief difficulty is caused by doing of tunk care in trensit, and ir. Edicon personally has written a memoratum on the mulpict today, stating that we have plenty of storage at our works and should be ship to release the empiricant cause.

Will you therefore please see that tank care reaching you are made capty at the carlinet possible moment, and in full someontent it would be interesting to know just the service we are able to give in this regard on that I will be in position to sawure Grassolli that their cars are handled immediately and alone definite lines.

A.C.Emery

ACE.S.

Copy to Mr. T. A. Edison.

Medearast =

Sickwick more presentante, to

Az plant olorage, Holicant

Rammulas has Lats

Rammulas has Lats

CONDENSITE COMPANY OF AMERICA

CHEMICAL RECOULTS SYNTHETIC CUMS AX - SYNTHETIC WARES

BLOOMFIELD, N.J.

March 15, 1916.

Mr. Thomas A. Edison. Orange, N. J.

Dear Sir:

We have made a thorough manufacturing test of crude naphthalene and find that we cannot use it without entailing a duplication of both chlorinating and distilling processes, and this involves an expense and a reduced productive capacity of our plant that makes the operation prohibitive.

We are very much interested in learning that you are turning out sublimed naphthalene at Woodward and expect to do so at the Cambria plant. What arrangement could we make with you for a continuous supply of refined naphthalene? If you have an excess production at Woodward for the sale of which you have not contracted, we might be able to handle it all or a considerable portion of it. If this is the case, we would be glad to know how much you would be in a position to offer from that point in monthly deliveries and over what length of time and at what price you would contract.

We are just completing the enlargement of our Wyandotte plant and will soon be in position to handle increased quantities of naphthalene, so wish to close this matterup at once if possible: in fact we have a buyer on the road

anceione + Sunt Co Tales have

Thomas A. Edison.

now and for these reasons if this matter interests you we would appreciate a reply at your earliest convenience. The writer will be glad to go over to Orange if you are prepared to make us a proposition.

> Very truly yours, CONDENSITE COMPANY OF AMERICA.

Side Oronne President.

KB\*FW

# SWISS COLOURS CO. Para

IS EAST TWELFTH STREET

PHONE 3821 STUYVESANT NEAR FIFTH AVE. NEW YORK

National Phonograph Company,

New York City.

Gentlemen:

122 West St.

Your favor of the 14th instant to hand, for which we thank you, and pursuant to your request, we are submitting herewith a sample of our

#### PARAPHENYLENEDI AMINE

which we offer to-day, subject to prior sale, at \$8.00 per pound, F. O. B. our works, Harrison, New Jersey, net 10 days.

If you would be interested in a contract for a specified quantity, to be taken in regular / monthly deliveries during a period of twelve months, we should be pleased to take up with you the matter of contract.

The unsold portion of our output is limited, and we respectfully request that you inform us at once if our product is of interest.

Awaiting your further favors, we are

Very truly yours,

This is preachably our SNISS COLDIES COURSING.

Pavia - at 1400 tresult at 15 and.

REGILS & G-good Pronuss

Encl. S

Bongal

Er. Charles Edison.

Earch 17, 1916.

Er. Scalowerett has handed no his monormalum to you of Earch 17th with your notation thereon with reference to eccepting Er. Dillon's proposal covering Elicanizes benned at a price of approximately of 1/s cents delivered. Er. Ecceloweret has noted no not to corrumicate with Er. Dillon as he has covered the situation fully with him and I am therefore depending upon his statement in this regard and armiting receipt of formal contract, which he assures me will be forthcoming from Er. Billon in due course.

Just as quickly as the contract is at hand I will take
the matter up and I understand that this contract is to be
excepted by you individually.

A.C. Emory.

ACE-S.

Come to Nr. Hondoworoft.

ort. Word

UAR 20 101

SUCCESSOR PROFINER.

borbolic

# MIDDLESEX CHEMICAL COMPANY, INC. OFFICE OF WORKS MANAGER

CHESTER, CONN.

VICTOR L. KING
WORKS MANAGER
TRESPROSS DREY RIVER 30

March 17, 1916.

Thomas A. Edison, Inc., West Orange, N.J.

Dear Mr. Meadowcroft .-

I have ten tone of spot Fhenol for immediate delivery. I don't know whether Ar. Edison runs short or not, but if you would like to make an offer for this Fhenol I will be glad to receive your wire.

With all personal regards to .ir. Edison and yourself.

Yours very truly.

VLK/H

7689

Mus

Silver Lace, H. J.

Mr. A. M. Hird, Div. Mgr., Disc Record Division.

## P. MICHOL FOR THE WAY DEPARTMENT

Following My, Balson's order of posterday, we will take back the Phonol which we distilout of the so-called "Recovered Phonol", will re-distil it, and not return it to you but use it for some other purpose.

The normal P. Phonol which we manufacture for your Division will from now on be distilled twice instead of only once, so as to avoid impurities. I expect that it will be possible to start delivery of twice distilled P. Phonol beginning with the end of next work, Sauturday, the 25th. For the coning week I hope you will be in a position to use the Phonol manufactured in the previous way by distilling it once only. If, however, you want to start using twice distilled Phonol right may, I would have to ask you for a few days' delay, as then we would have to melt the Phonol now kept ready for you, out of the case and re-distill t.

H. HALLERYSVE

C.C. to Hessrs. T. A. Edison and E. Davis.

Bargal

#### CLARENCE DILLON 28 NASSAU STREET NEW YORK

(7686)

March 20,1916

Dear Mr. Edison:

I confirm sale to you as per my telephone conversation with Mr. Meadowcraft on benzol as follows:

On behalf of the Milwaukee Coke & Gas Company 500 gallons per day from May 15 to June 30 1916 at \$.70 per gallon fob Milwaukee.

The Hilwaukee Coke & Gas Co. will also lat to May 15th, but they do not anticipate that they will be able to furnish you anything like the full 500 gallons per day for the first half of May.

On behalf of the Mewport Hydro-Carbon Company of Milwankee (this somemony is controlled by the same people that control are titwankee Ooke & Gas Co. and the Horthweet Color and the Litwankee Coke & Gas Co. and the Horthweet Color and Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color Co. Hort Color

You understand that the Newport Hydro-Carbon Co. have bought this bemood from E.H. Hanna & Co. Min are now in turn solling it to you. The specifications from this bemool are just the same us on the bemool you have bought before from the Hilwankee Coke & Gas Co.

I am sending a copy of this letter to Milwaukee today and forms of contract will be received in due course, when I will send them to you.

Very truly yours,

Thomas A. Edison, Esq. Orange, N.J. CD JS Muncloinor—

ILL COMMUNICATIONS SHOULD BE ADDRESSED TO J.P. MORGAN & CO., EXPORT DEPARTMENT.

# J. P. MORGAN & COMPANY

EXPORT DEPARTMENT

28 WALL STREET

Mzadocroft -

TELEPHONE HANGVER SIBO

NEW YORK, March 20, 1916.

Thomas A. Edison, Esq., Orange, New Jersey.

to indicate how it can be obtained.

aptacht the data you can 4 go borr 4 personally Explans the who

Dear Sir:-

the amounts.

We thank you for your letter of March leth and the in-formation submitted therewith relative to your toluol contract with the British Covernment. In order to give our principals a complete record on this matter we should like information on

two further points: First: It will be necessary to verify the date of which the plant went into active operation, and, as we have no means at our command to obtain such verification, will you be good enough to indicate how it can be obtained.

In connection with the statement in your letter Second: that you did not agree to deliver any specified amount of tolucl, we direct your attention to the contract which recited that the daily shipments would be 320 gallons more or less until the addi-tion to the plant was completed, after which they would amount to 480 gallons more or less. This, of course, means that approximately the number of gallons specified were to be shipped each day, and as you say the addition was completed at the same time as the plant itself, the Government should have received approximately 480 gallons per day for one year. This would mean that the Government would expect to receive approximately 170,000 gallons whereas the total deliveries made were slightly in excess of 26,000 gallons. We would like an explanation as to the discrepancy in

Thanking you in advance for giving us this information at an early date, we are,

Yours very truly,

EXPORT DEPARTMENT.

By Jacama

All communications should be addressed to "Commanding Officers, Picatinny Arsenal, Doyre, N. J."

EVEDERA FREIGHT ADDRESS PICATINNY ARSENAL, N. ON WHARTON & NORTHE RAILROAD.

#### PICATINNY ARSENAL DOVER N. J.

March 20th. 1916.

Thomas A. Edison. Orange, N.J.

> SUBJECT: Phenol Method of Packing.

Sire

Replying to your letter of the 9th inst., we see no objection to your proposal to use wooden plugs for closing the filling holes in phenol drums provided these plugs could be kept in the holes. As the drums are made of such light weight material it would seem very unlikely that plugs could be made to hold unless a fastening strip of some sort were placed over them to keep them in place.

Some time ago we complained of the expense of resealing and crating for return to you the galvanised iron drums in which you have been delivering phenol to this arsenal.

At that time you promised to look into the question as to whether it was really profitable to have these drums returned to you but no final reply was ever received in the matter.

The contract contemplated shipment in steel drums with screw plug and requiring no crating, worth about \$10.00 cach. Dalivery in such drums would save us considerable expense for re-sealing and crating.

Please advise whether we may scrap the galvanized drums instead of returning them, unless some more simple way of closing the hole can be devised.

Marie Land Comment of the Comment of 91 Kammaholi

IA. Col., Ord. Dept.,

Commanding. 6511

Silver Lake, H. J., Harch 25th, 1916.

Dr. Mandoweroft.

### PICATINGY ARSENAL

Finating seems to be afraid that the modem plays which we, according to Liout. Commander Hisberly's advice, We will from now on whose, will slip out of their holes. We have taken this damper into consideration, and think we can eafely ship the came by leaving a slot in the top of our crating where the play is and then cover that slot from theore by short in middle we nell on it.

Pleating monitions returning the calvanized from case in which we dispect them P. Phenol. This question case up months ago. We tested some of the returned case and find them untight. Microfore, we informed you that we could not advise using the returned case again but could now use of them in our factory. It really does not seem tooth while that Pleating diould return any more of times.

Enclosed please find the letter from Ficatinny dated March 20th, of which I took a conv.

i., saifiiose. II

March 28th. 1916.

It, John .. Joyes, Lt. Col., Ord. Dept., U. S. A., Commanding, Picatinny Arsenal, Dovor, H. J.

SUBJECT: Phonol Method of Packing.

Sir:

Your favor of the 20th instant to Mr. Edison was received. He is away in Florids on a few weeks vacation.

In the mention, I can roply for him as I un fundilar with those metters. In regard to the tooden plues, our plant reports that they have taken the danger of locs into consideration, and that they can eafely ship the cans by leaving a slot in the top of accrating where the plus is, and then cover that slot from above by a place of check tim which they will mail on the orating. This would does to be in line with your cargostion.

You will be glad to learn that you need not return the galvanized from drums to us any more. You may, therefore, but them in the scrap heap.

The reason that to have made all shipments of Phenol in new galvanized from drums it becomes dr. Salicon was maxious to have the material reach you with the least possible damper of contamination. If the ordinary steel drums with sorm plue were used, the time of the contamination o

Respectfully yours.

Ascistant to Mr. Edison.

And for 10 lb anniles

Facer from 20 or 30 frag

taken from each

handful from each

y, Cape Broton,
Ochada.

Attention for Dominion Iron & Steel Company, Cydney, Cape Broton, want to see how much

sectioned it wece Gentlemen:

Referring to our recent correspondence in regard to Maphtheline, I would say that Mr. Edicon has left todey for a few weeks vacation in Florida. Before leaving, he wished me to write to you to ask how much of the crude (Herhthaline you produced daily, and approximately how much you have already on hand.

If you will kindly send this information, I will submit it to him. He thinks he may be able to make some suggestions to you about refining it.

Yours very truly,

Min Goldson He whole and steamt

Here is the forming.

Alory notaril hadre as to freight and the forming as the forming the fo Assistant to Mr. Edison.

March 21st. 1916.

Mr. V. L. King, % Middlecex Chemical Co. Inc., Chester, Conn.

Dear Mr. King:

Your favor of the 17th instant was received only this morning, a few minutes before in. Edison left for Plorida for a few weeks wantion. I showed him the letter, and he wished me to say that we are keeping up with our contract requirements on Phenol, and he would not be interested in buying any open stuff, although he wished me to express his appreciation of the courtesy in offering it.

with kind regards, I remain.
Yours very truly,

March Elnd. 1916.

Takamine Laboratory, Inc., Equitable Building, Low York City.

# Attention of Mr. J. F. Hiddell.

## Gentlemen:

le must sek you to kindly perdon the delar in replying to your favor of the 18th instant. Mr. Edison was exceedingly been prior to his deperture for Hortic, but he took this matter up with me just before he laft.

He is ready to enter into a contract for one (1) ton of mosthalld per month, for the (6) remonths at two deliars und fifty count (2.50) and pound F. O. 3. 11vor line, in a 1 to complete the could furnish rould be until index to pound forwarded to you this dup by mill index toponion over. This quotetton is made shiped to prior sale.

Yours very truly,

assistant to Er. Edison.

A. M. WOOD & COMPANY, INC. RESIDUES SPECIALTIES MELTING STOCK LOW PHOSPHORUS SCRAP, ORES IRON AND STEEL KEYSTONE TELEPHONE CONNECTION COMMERCIAL TRUST BUILDING 3-33-10 miline people 2 an 13 times (-ecause They don't understand Um. E. Meadoworoft, Esq., c/o Thomas A. Edison, Esq., \_ Orange, H. J They wee Dear Sir: In our travels we have ascertained that one of the aniline people claim they are reconcentrating the residue from borings after they are used once. Can use it aver again We know nothing about this bushiess and simply offer you the information raceived. These people use pulverized borings ash. They claim at a cost of about 100 and 200 mesh. 05.00 per ton they can reconcentrate the material to make it possible for reusing, and further they are able to continue this practice on the same lot of residue so that they can use it at least four times. assazed to hear this, and as stated above we simply give this for your information.

Tours very truly. A. M. WOOD & COMPANY, Inc. ajh'fof Secretary.

Silver Lake, N. J., Harch 32nd, 1916.

ir. Mendoweroft:

# P. PHEMOL YOR E. R. STUISS & SOMS.

I beg to inform you that to-day we sent four example bottles to E. E. Squibb & Sons, from Same Nos. 359, 560, 361 and 362.

This is the first lot or twice distilled Phonel which we sent samples of to Equibb. The solidification point is 40.6° Contigrade, and I hope that from now on Squibb will find no reason to complain Locus the small of A should and will same the small of A should and will save the small of the same than the same

S.A.

Dilver Lake, H. J., Harch 23rd, 1916.

Er. Headoweroft:

#### E. R. SQUIBB & SONS Your Home of Harch 22nd

its. Mison sout so my mans of Harch 18th, addressed to you, back with his remarks on it. I on returning this to you with the attached letter of Squibb & Sons, dated Harch 18th. I also attach hereto their letter dated Harch 18th.

corning, Squibb a Jone will receive right ency for this 23, 315, 315, 527, 548, 549 and 551. Character they will receive right ency of thems, Son. 25, 315, 316, 547, 548, 549 and 551. Character they will receive true distilled F. Thomol only. Considering this fact, I beg to advise writing Squibb & Sons in the following sansa:

so pure that, or instance, the vary careful tests ends by the U. 5. Have every time resulted in according on the most contribution of the complex. In applies of this, hereoff, Little in the contribution of

MY

#### [ATTACHMENT/ENCLOSURE]

Silver Lake, N. J., March 15th, 1916.

Mr. Meadowcroft:

#### CARBOLIC ACID FOR E. R. SOUIBB & SONS.

Enclosed I beg to return the letter from E. R. Squibb & Sons, dated March 9th, to which I have to make the following remarks:

We resolved the three small femple bottles, and find that the latter comsist of normal white class. We firml in the "Financeopeeia of the United States", page 537, under "Finance", flat Phenol should be kept in dear scarce colored, voll: stopped bottles. Arie seems to include the the Phenol has a tendency to change its color in time if it is exceed to day light or coloring the coloring the coloring time is a second of the coloring time of the coloring time is a second of the coloring time in the coloring time is a second of the coloring time in the coloring time is a second of the coloring time in the coloring time is a second of the coloring time in the coloring time is a second of the coloring time in the coloring time is a second of the coloring time in the coloring time is the parameter of the parameter of the coloring time is the coloring time in the parameter of the parameter of the coloring time is the coloring time in the parameter of t

is to the question at to the our Remoi has a tendancy to become brownish, whilst other Themoi Is kepen to turn pink, wo can not give a present any explanation. It seems to it, however, that the difference has the came in our Phenoi Delay made gryphyligally. As there is, no doubt, a cortain difference between the smallfafffved directly by the distillation of coal tar med small Phenoi made synthetically, it is quite obvious that also in regard to discoloring there may be difference between natural and synthetic Phenoi.

To chart that there has a possibility of consection between the kind of discoloration and the way of who mountenaring, but heatists to be press any special option, owing to this complex attantion in regard to colors of \$400. It containly, seem impossible to detect my difference by a chemical analysis between the three semples of our Phenol cent to us by \$201bb. We will, however, try to bring more lightjon this question after we have put our copper still, in operation. We will then fill a certes of sample obttles with Phenol distilled in our from stills, as well as in the copper still, and keep, coppesed to the day light. If we detect any difference in discoloration we will report further on this question.

murhaff - The Rectished should we have made at Various time from

Thenol Reaps brautifully whit

The trouble is that at our rate of developments over corried over missions are Corried over muchanish as in all developments for to get a salektocolony thenal for USP was should be admitted to we don't our competitors will take

Our Evenes away - it would cost
Very little to receletic Squebo

plane!

Visterlay - Y look some of Haffman

planed be blocod over a your

destilled of closelined it was

water - There was left a

globule of donk Color which

would not desalve - There

would not be planed

# [ATTACHMENT/ENCLOSURE]



# E:R:SQUIBB & SONS

MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858 GENERAL OFFICES 78 & 80 BERKMAN STREET, NEW YORK CITE CHEMICAL & PHARMACEUTICAL LABORATORIES, BROOKLYN, N. X. RESEARCH & BIOLOGICAL LABORATORIES, NEW BRUNSWICK, N. J.

ADDRESS ALL COMMUNICATIONS TO E. R. SQUIBB & SONS, NEW YORK

MANUAL MANU

We are sending you by Express three samples of Liquefied Carbolic Acid. This is Acid taken from the drums which you supply us, and liquefied by heat and filtered, and then 10% of water added to keep the Acid in a liquid state. We find that when the Acid is first melted it is cloudy, due we presume to the presence of a stannous salt, after filtration it has the appearance of the sample marked No.1 At the end of a week it has begun to discolor - sample No.2 and at the end of four weeks it has acquired quite a brownish tint-sample No.3

We do not know whether your attention has been called to this before but many of our custoaers complain of this coloration, and we would like to know whether you could make any suggestion by which we might prevent this, or whether you could supply us with Acid which would not change so readily. We have never before had any that assumed this color although we have had Acid that turned pink on exposure. White for many purposes this coloration is not objectionable, still where Pharmacists use it in dispensing prescriptions, it is so regarded. Please let us hear from you at your convenience, and creatly oblige.

Land Land

Supt. E R Squibb & Sons (

BFH/M

# WESTERN UNION

Form 2250 K

# NIGHT ETTER

| GEORGE W. E. ATRING, VICE  |   |  |  |  |
|--|---|--|--|--|
| RECEIVED AT 288 MAIN ST.<br>126 NY H 33 ND RANGE, N. J.  | Say Dont care to<br>Oell plans  |  |  |  |
| SAN FRANCISCO CALIF MARCH 23-16  | Oell plans  |  |  |  |
| WILLIAM H MEADOWCROFT  | 62.   |  |  |  |
|  | EDISON ORANGE NJ  |  |  |  |
| WOULD LIKE TO OBTAIN PLANS FOR SYNTHETIC PHENOL PLANT  |   |  |  |  |
| FROM BENZOL WILLING TO PAY REASONABLE PRICE URGENT FOR LOCAL   |   |  |  |  |
| MEDICAL AND MANUFACTURING USES GREA<br>WIRE<br>COOPERATION ANSWER MY EXPENSE.  | 3 3 3 1 16  |  |  |  |
| MARK W   | VOLFSOHN Media mi selection   |  |  |  |
| Mr. Edus 1 the month in 12   | NOLFSOHN  AM  Market  Regard to our force  Regard to our force  dress when the security force of the security |  |  |  |
| there is the owner would be a family to the control of the owner of the control o | Heaven W. A. Markenvery   |  |  |  |

KEITH CAR COMPANY
PEOPLER GAR RELLEING
149 REVYH MICHIGA AVE.
CHICA GO

7903 Janks

Haroh 23rd, 1916.

Keep all the Bungal Caro Thomas A. Edison, Orange, N.J. perhaps better get one Extra , Woodin Dear Sir:cars 653, 654, and 655, expires on the Soth day of May A. .. 1916. Next wear te are prepared to renew this contract with you for one year at \$75.00 per month from the first day of June, 1916, or we will take the cars back at the end of the contract period or at ony time between now and the termination of the contract, which ever suits your requirements. Would be very glad to hear from you as to what you desire to do in this matter. Yours truly, bellow dearens, pent dare lad M. Edwan ohad want att on Bange town In last! President. with it would ! Taule The second 3800 galeera 140 والالتأ "" " E & are goi Arcetector beris march 27/16 16 al Huosi 16 ml serve

dret them get out of it the 60 Etch 1916.

Deer Ir. Edison: few mich any more Event collen yam

I wont to 3. 10 thrown y more Event collen yam

you were obliged to go into the Oreginning and ekplained how it was that you were obliged to go into the Carbolic acid business, and inclonely, into the Bannol production business. I also related the late the Collol contract from the camera is a superscript of the Collol contract from the which I submitted to you a week or two Ego. In such that the Collonely week of the Collonely of the Collone

They began to ask questions as to how long it took to produce plant there was a great do not not not be beginning of operating a new plant there was a great dead of preparations as it had to be divided up necessarily so, the heads and tails of each distillation, and the subsequent refining, with the heads and tails belonged them, etc., etc.

quantity inserted in the original letter of agreement had really been estimates on your part founded upon the figures given in the authentic literature, but that we subsequently found that the gases at Johnstom did not contain the Yould you had figured on, and indeed that the Johnstown cosl was shormally low in volatility. All this explanation seemed to clear up the atmosphere a great deal.

where the land lay. In a nut-shell, the whole trouble into the British Government took the figured to the the British Government took the figured that the property of the state of the figured that they were going to get a state of the figure that they were going to get attend the beam and to the plant. They multiplied these figures by the number of days in the year, and then crossed that quantity of but the maker to be plant. They multiplied these figures by the number of days in the year, and then crossed that quantity of but the number of seemed to be seen the plant when the plant was the control of the first own there are not to the late account that you only the control of the seems in conceivedly stupid.

our total deliveries will be only about one-fifth the total quentity which the British Government expected to receive from you, and I am of the opinion that they, J. P. Morgan & Company, are being charply celled to account by reason of this discrepancy.

ir. Weems wanted to know if there was not something we could do to make the deliveries more nearly opproximate the British Government expected. They spoke of in. Edison's boundless energy, resources, etc., and saidthat surely he would be able to meet them in some way, seemed to me rather thin ice, and it was very currell. Out except could have said out plainly that you had contracted you on the transport in the best in the first march lat. I then the said out plainly that you had contracted you on the best in the could make the deliveries upproximate anymers meer the quantity expected by the British Government, as you had graders near the quantity expected by the British Government, as you had graders near the considered this

es a contract for all the Toluol produced by the plant for one year from the beginning of its operation, and that you "had governed yourself co-cordingly". It is not that the beginning of the cordingly that the leading to the proceedingly the leading the process of the proces

my words had placed the metter. Of course, I may be a supported by the position in which we would be a placed the metter. Of course, I may be a supported to infer that I meent, but he did not say in and see if you could not acked me if I would not communicate with you, and see if you could not devise some way in which commetting more could be one for the British of course, could be one for the British of the

In all our conversation I was observing every word most minutely, but there was not a hint of any hind as to any leged proceedings. There was nothing whatever to indicate that any such thing was in their minds.

There is only one thing that I can think of that we might do for the British Government. Le have contracted our Tolaol up to hay let 1917 to Daront. You will still have eight morthes of 1917 un-contracted for. Even if the war is over long before that the Government will be probably stocking up again on Trinitrotolao British Government will be probably stocking up again on Trinitrotolao British Government asee that is about the only bling we can do, that is, to let he si the Government have the Tolaol from May let, 1917 to December 31st, 1918 to might slow see what sort of a trade littent would make with them for Tolaol after December 31st, of this year, when their contract expires

I am enclosing the papers with which you can refresh your mind on certain things.

WH dleavoure of f

Enclosures.

### [ATTACHMENT/ENCLOSURE]

Feb. 3, 1915.

His Britannic Majesty's Government,

Dear Sirs:

I am now erecting at the Cambria Steel Company's works at Johnstorn, Pennsylvania, a plant for absorbing Benzol and Toluol from the gases of the Coke ovens there, which plant, it is expected, will be in operation about March 1st, 1915.

I hereby agree to sell the whole of the Toluol of 98% porty produced from this plant, for a period of one year after the plant is in operation at fifty-five (56) cents per United States Callon, N. O. B. Hew York City; same to be shipped in steel drums, and drums to be charged for at actual cost to me. Shipments to be rande weekly or monthly at the option of the buyer. Payments are to be made on presentation of shipping bils from works.

His Britannic Majesty's Government by J. P. Morgan & Co. Agents, agrees to accept and pay for the whole of the Coluci shripped from such plant to them for a period of one year after plant is in operation, such shiphents to be 350 gallons, more or less, per due to the interest of the plant; which addition is expected to be in operation in about form yet which addition is expected to be in operation in about form yet of Coluci from said plant to 450 gallons per day, more or less, this also, they, the Said His Majesty's British Government by J. F. Morgan & Co. Agents hereby agrees to take at said price during the said one year period, subject to impection and test.

Yours very truly,

(signed) Thos. A. Edison.

The Above is the substance of the arrangement made between Mr. Edison and Mr. Herbert Lewis.

(signed) Wm. H. Meadowcroft,

Assistant to Mr. Edison.

## [ATTACHMENT/ENCLOSURE]

J. P. Morgan & Company
EXPORT DEPARTMENT

23 Wull Street,

Hew York, Feb. 6th, 1915.

Thomas A. Edison, Esq., Orange, N. J.

Dear Sir:

Receipt of your letter of February 3rd, 1911, covering cale of Toluol to the BritishGovernment, is acknowledged.

The proposal you make therein is hereby accepted, with the following conditions, to wit:-

It is understood that the inspection and acceptance of the product shall be by representatives of the BritishGovernment, and that the amount of Toluol, - the subject of this contract, thall not exceed eight hundred (600) tons in all.

It is also understood that the notation in your letter with respect to ir. Lewis is a matter with which we have no concern, but that the price you mention is not to the undersigned.

Zindly confirm the forecoing.

Yours very truly,

(signed) HIS BEITANNIC MAJESTY'S GOVERNMENT.

by J. P. Morgan & Co.

AGENTS.

CABLE ADDRESS JOKICHI TAKAMINE TAKAHINE, NEW YORK JOKICHI TAKAMIN TELEPHONES RECTOR 2364 lakamine Laboratory (Inc.) Equitable Building New York DURINGER Thomas A. Edison Emboratory. At fention of cree Dear Sirs : -To wish to oprous our thanks for conscious cour-teons favor of Earth Sond, in which you navise us that conclusion that you can enter contract for one to acctendid per month for six months at \$2.50 per sound f.o.b. Silvey on Contract Lake, H. J. We regret to inform you that this price jarway beyond consideration. We have been able to get regulirements of Acetanelia at (1.05 for a certain and antonich month, but as we need a larger quantity we were compelled to look round for another source of supply. If you could consider furnishing us Acctunolid one or two tons per south at that price we would be sore than glad to enter an order for a six months' contract. We sincerely hope you will consider this entter

favorably, and awaiting your roply, we remain,

buch

and Very truly yours,

TAMAMME TABORATORY, INC.

ne case Tiens a chemical

ET/D The friet, money nest. Mericanen

free som merce forth

Dear ir. Mahn: my Toluol = They have had a I have being round for the Contract of the property of the property of the property of the property of today until you to please defer answering if the total cheet, I, I lorgen & Company until you receive my letter of today on the season united. The property of the property

1,000 gallons

There belongs to British Government Sold Mitsui, to be delivered apriled Surplus on hand

We also have on hand enough crude and washed Toluol to make six or seven thousand gallons more.

Our contract with the DuPont people calls for deliveries beginning in May. We can still figure on our production of Toluol for a few more days in March end for the entire month of .pril, so let us see how we would stand May 1st, and still be very conservative in our estimate.

Surplus on hand, as above, april production. \$140 gallons

3,438 gallons

per day available for sale May 1st

You will notice that in the above calculation I have taken no account whatever of the crude and washed Toluol on hand, from which we will undoubtedly get six or seven thousand gallons more, but I figured to apply that on Dupont's May delivery, if necessary.

The net result of the above is that after providing liberally for our lay delivery to Dupont, and after deducting the 6,302 gallons we have on hand for Wargen and the 6,130 gallons we have on hand for Margen and the 6,130 gallons we have on hand for Hitzui, you would still have for sale, May lat, 7,638 gallons.

How I do not know how liberal you want to be in dealing with J. P. Morgan E. Ongwarp. I three out a suggestion in my latter to you of yester-day us to lotting them have some after May let o' next pear whom our Dupont contract expires. If you want to be liberal with the British Government, we could still stand on our contract that they have had what their contract ceiled for, namely, our foluoi for one year, but if you are so minded, you could let them have an additional 5,000 gallons at the same price, 55¢ on a written understanding that this 1,000 gallons does not apply on the contract, but is voluntarily offered by you in view of the mutual disappointment as to the quantity of Toluol which you had expected to furnish and which they had expected to receive.

AS I stated to you in my letter of yesterday, I did not come out openly and say to 1. F. lorgan & Company that you had contracted your Tollol. I foresaw that probably another interview would be necessary before we could close the matter up, and, therefore, thought it best to lay the matter before you first. I do not think it would be well to make any offer whatever in writing.

I shall await your instructions.

D'y lleavou a of l

### Mr. Edison:

Referring to the attached letter let me say that we rent eight acid cars from the German American Car Company. It would seem from this that the lease of six of these cars expires in May.

We now have six acid cars in the Chamber Acid survice. running between Silver Lake and Charleston, L. C. More ore two of these care filled with Chamber Acid on the way up to Silver Lake, and four are on the way down to Charleston. I think there is only one corload more of Chamber Acid due us under the comis only one our load more or themser and due us under the contract with the South Carollin people. You will undoubtedly remember that this contract for Chamber add is made by Mr. Morr man for us. I called them up today, and they care not cure but that there was one more ear due to us. Incover that may be, the four remains that when we have received back the four our interest. are now on the way to Charleston for Chamber acid, we shall not be sending them back again. This would, therefore, leave us with these six acid cars on hand before May 1st.

Beides those to have two other German american Acid cars, whose leases expire later on in the year. Le dice have two acid cars that along to you. These are the two that ir. Heffmen bought for the end that you midd for with Phonol. Le we have plenty that cannot you can done. I do not see thy we should the amother lease of thacks German american cure those leases or pires in they, especially you consider that they have jumped the rental from 300, to 36% per month.

your instructions.

e Extra acid Cars #2 Carbolie volt be using Carbone of Namumology prescally

# [ATTACHMENT/ENCLOSURE]

## THE GERMAN AMERICAN CAR COMPANY

GERMAN AMERICAN CAR LINES
GENERAL OFFICES
HARRIS TRUST BLDG.

PRESIDENT
DAVID COPLAND
GENERAL HANAGER
CHAU. H. COYLE
ASST. PRESIDENT

CHICAGO

EASTERN OFFICE
17 BATTERY PLACE

NEW YORK

(1769)

Thomas A. Edison Inc., New York, March 24th, 1916. Orange, N. J. Wendowcroft, Asst.

Gentlemen: -

Confirming our this morning's conversation wish to remind you that your present lease on the siz (6) Acid care, numbers GATX 8060 to 8065, expires in Kay, and we should like to know whether you wish to remow it.

As you of course realize, the demand for Acid cars is even greater now bhan it was some months ago, and there is practically no supply at all to meet it. Roreover, the price of new cars has increased over 30% since we built these cars for you.

On the very few cars we have had available recently we have been gotting 40 a month for three-year leases, \$50 for two years, and \*60 for one year.

If you wish to retain these six cars in your service and will make a new lease for a period of three years we will be willing to continue them at the same rate of \$30 m month. We want you to realize that this is a considerable reduction from the rates we are asking at the present time. If you cannot see your way clear to making a lease for three years we will let you have the cars for two years at the rate of \$45 a month, or for one year at the rate of \$50, month.

We hope you will be able to let us know promptly if you wish to retain these cars as we are obliged to turn down inquiries every day on account of not having cars available with which to meet them.

Very truly yours,
THE GERSAN AMERICAN CAR COMPANY
BY Character To Taxon

BE:EL

Mr. Edison:

Here is a duplicate of the long missing letter. I remember the original coming in, but have no resolution of it afterwards, except a dim idea that you sent it to D. Parkon.

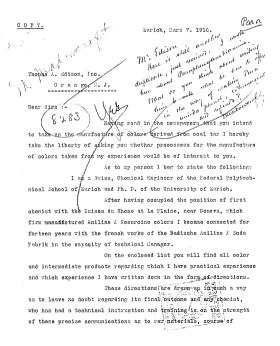
I have had 2 copies made of this and put them in our files.

med 27/16

You night come him group I do not intend to go with stratum to alone

Sar next page

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- 2 -

manufacture, output to be obtained, mixture, cost price, etc...
in a position to erect and conduct the manufacture of such
colors on a profitable basis.

As the numufacture of colors in the United States of America has become a vital question and the next Congress will undoubtedly protect the chemical industry in the United States through high teriffs I think that among this list you will find agreet many products which should be of interest to you.

I am always at your disposal to furnish you with further details and swaiting your further news,

I remain, dear Sirs
Yours truly

References:

American Consulate General Zurich Swiss Credit Anstalt Zurich

Address:

Dr. Tilliam Enceht Euc du Righi 47 Zurich. Switzerland.



## Conlours d'Aniline.

| Bleu methylene B.         | Fucheine 3            | Blow marin                |
|---------------------------|-----------------------|---------------------------|
| " " BGL                   | Bleu toluidine        | Bleu de Hil               |
| Violet cristallisé        | Bleu victoria B       | Blou de Buit              |
| Violet A l'Ethyle         | " " 3                 | Rhodamine B extra         |
| Violet alcalin            | " " 4 li              | " G "                     |
| Vert malachite            | ronoenn 28            | m 3 m                     |
| Vort brillant             | " 33                  | " 60 "                    |
| Vert saide                | Blem mostine B        | Jaune de ainoléine        |
| Auramine 0                | u u 3                 | * * * * S                 |
| Fluoresceine              | Sosine                | Violet am Mothyle B extra |
| Arythrosine               | Rose Bengale          | Bleu indoine R            |
| Jaune naphtol 3           | Orange II             | и и В                     |
| Jnune solide              | " IV                  | Asoflavine 3              |
| Rouge polide A            | Phloxine              | " A S                     |
| " B                       | Erythrine 2 R         | " 23                      |
| " " D                     | Tartrazine            | Faranitraniline           |
| 9 9 E                     | lyrumine Orange       | Jeane metanil             |
| Roir brillent             | Noir direct au soufre | ( Jmmedialnoir )          |
| Dinitroso Resorcino ( Ver | t de Aussie )         |                           |

natidres premières.

Acide Bayer

Acide Schaffer

Acido 3

Scide G

Acide gallique

Scide naphtionique

Acide sulfanilique

hoide phonylhydrazinesulfonique

amidonzobenzol

amidonmobenzolamlicael

Benzaldehyde

Benzylethylaniline

Chlorothyl

Chlormethyl

Dianisidine

Dimethylaniline

Diethylaniline

Dioxytertrate de soude

Huile pour rouge ture Eitrophenol, Ortho et Para

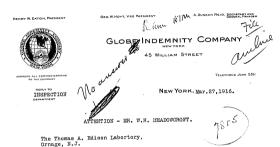
Orthonitronnisol

orthognisidine

Paraumidobenzalaldehyde

Resorcine

uingldine



We are in receipt of a copy of a letter which you sent to our Cleveland Office dated March 10th in reference to the process of nitrating in the manufacture of Aniline to the process of hitrating in the manufacture of anilahe oli &c., and we wish to advise that we have had several requests for insurance on mitrators, but we had to refuse on account of the unknown hazard attached to the operation of said nitrators. We are very anxious to get further informamend nurracors. we are very anxious to get turner intoffmation in reference to their manufacture, construction and operation, and if as you say, you are operating nitrators a your plant, our Superintendent, Engineer and the writer would esteem it a favor if you would allow us to visit your works and examine the operation of your nitrators.

Dear Sir-

Thanking you in advance for any courtesy you may

Very truly yours,

We for any courtesy

Very truly yours,

We for any courtesy

Very truly yours,

We for any courtesy

Very truly yours,

Supervising The processor of Supervising The processor.

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Luv Offices John T. Hettrick 165 Broadway

Controlie

Telephone Cortlandt 884

nerical works. As we are allowed up. Silver lates.

Perhaps Haffman + also

Etern hunght jog accordat Edison Chemical Works.

Gentlemen:

of the directors of plane phone producing plant.

Irresponsible war brokers have been acting without authority, I am informed, in making large offerings of phonol and pieric acid at prices much below the market, which has disturbed conditions here, resulting in large money resses to the various plants producing these products.

It has been proposed to hold a conference in New york for the discussion of business conditions in this industry and so far as we are legally entitled to act more or less in co-operation to remedy the bad state of affairs. From an investigation made by me covering a period of several months, I feel that a substantial betterment can be made in the trade.

Would it be possible to have some one representing your plant attend a preliminary conference to be held in this city within the next week?

Thanking you in advance for a reply by wire or letter, I remain,

Yours very truly.

John J. Kettrick

## E.R. SQUIBB & SONS, NEW YORK MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858

CourtoCie

EXECUTIVE OFFICE

March 27th, 1916.

Mr. Wm. H. Meadowcroft, Assistant to Mr. Thomas A. Edison, Orange, N.J.

Dear Mr. Meadoweroft :-

I have your very interesting letter of the 24th instant, and congratulate Int. Edison upon his nuccess in devising the improved process for the production of a pure Phonol. The samples lies. 359, 360, 361 and 362 will at once upon receipt be examined, and I will send you the report our control laboratory will make concerning the same. Reamwhile, I hope you will lot us have of this pure sold all that you can give us.

ory trued yours,
THE DOCK THE POSITION TO CAN
VICE President
E. R. SQUIBB & SONS.

TW: Lch

March 28th . 1916.

Can

Mr. Amery:

Just before ir. Educated I discussed with him the question of Benzol for all our plants, and we were both aware that it might be possible that we should occarionally be obliged to purchase some spot Benzol in order to keep the planter running. This is on account of the railway congestion and embureous. In: Edison told me I should have to act according to my best judgment on that point, and only to purchase if it weemen absolutely necessary to keep the nicht running.

This emergency proper today, and fortunately I was able to find through the American oil & Sumply Company a moderate quantity of Sensel which they have been trucking over for us today. I asked then to get me 16 drums if possible, but will not know until tomorrow just how much they have been able to get.

W. H. MEADOWCROFT.

Morch 88th. 1916.

Globe Indomnity Company,
45 William Street,
New York City. Attention of Mr. Turnbull

Gentlemen:

Your favor of the 27th instant in reference to the process of nitrating in the manufacture of aniline Oil, etc., has been received.

Your request for permission for your Superintendent, Ampineer and yourcelf to visit our plant is noted. In. Edison has strictly prohibited the admission of visitors to our Silver Lake Works, and in his absence I shall be unable to comply with your request. However, I will send down your letter to him in Florida and upon receipt of his reply will advice you further.

Yours very truly,

assistant to Mr. Edison.

Attention of Mr. W.H. Headowroft.

Shanks you for your letter of 21st instant

We have available for disposal at present
approximately 115 Met zens in Bage, and our make would
be about one half a Met zen reight deliy.

We Edward Maria Core acranyments
Stant put my a sultenum of Story or a
Seart put my a sultenum of Story or a
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of your pronosal, meanwhile,

ours faithfully,

We will be interested in knowing the detail

sed st. General Sales Agent.

(8080)

April 12th. 1916.

bominion Iron & Steel Company, lydney, Cape Breton,

# Conada.

Gentlemen:

Referring to your favor of the 56th ultimo in regard to Magnitheline, 1 t me say that I sent your later down to Mr. Edison, who is at present in Florida.

I have received a memorandum from him this morning scales me to communicate with you and say that ha his return to the Laboratory he will make you a proposition on this product.

Yours very truly.

assistant to im. Edison.

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21, couls a lot for the refused Neighbolem

Physical away - 1 years continued

Thirt male for 1 years - 5

with an Option to us for one years, additional,

Of End of Control coels sell & E

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THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH. GOTH STREET AND AVENUE A. NEW YORK.

March 28, 1916.

CABLE ADDRESS
ROCKSTYTUTE

MALLOW

1832

Thomas Edison, Inc. Orange New Jersey. Gentlemen:

We are greatly in need of the following chemicals: ortho, mata, and para - nitro-amiline, and we would appreciate it greatly if it would be possible for you to help us out in the matter of supplying these special chemicals. We would like to secure about one or two kilos of each or any of them. You can readily understand how difficult it is for us to obtain such chemicals in the regular way at the present time, and that these chemicals are to be used for purposes of scientific investigations only at the Institute here.

Yours truly

THE ROCKEFELLER INSTITUTE

FOR MEDICAL RESEARCH.

Our. B. Spire

PS: plans a die Me Concerning the facility of suffing Para Phunghens

CB5p-

Chemicales .

Dear Sira:-

Your name has been suggested for membership in the Manufacturing Chemists Association of the United States. This suggestion has been made owing to the very active interest which the Association is now taking in the so called dye stuff situation.

There are approximately 40 of the leading chemical manufacturers of the country in the membership now. The annual dues are \$75 and the initiation fee is \$50.

May I ask if you would care to join?

Should you care for further particulars, you can inquire of the General Chemical Company, the Barrett Manufacturing Company, Schoellkopf, Hartford & Hanna, the National Aniline Company or the Benzol Products Co.

Should you care to know more in detail as to the very active work which the Association is now pursuing in order to secure some form of relief for the so called dye stuff situation, I will be glad to communicate with you further.

Very truly yours, A. H. Weed

March 29th. 1916.

The Rockefeller Institute for Recieml Research, 66th Street and Avenue A. Set York City.

#### Attention of Mr. Chas. B. Lpics,

Gentlemen:

Your favor of the 28th instant has been received. We regret very much that to shall be unable to supply you with either orthe, meta or mannitrosmilling. The dection of manufacturing those chemicals came up many months use, and Dr. Edison decided that he would be unable to so into the manufacture of them.

We are making Paraphenylenediumine, and could supply you wit: this chemical in moderate quantities at %4.60 per pound. We are conding a sample by this mail.

As to the other chemicals about which you inquire, you might communicate with the American wil & Suegly Commony, the Lafoyotte Street, Nowerk, H. J. They may be able to cumply you, or if not, they could get them for you.

Yours very truly, Edison baborstory.

## WILLIAM H. SCHEEL.

MERCHANT.

159 MAIDEN LANE AND 37 FLETCHER STREET.

Carbolie

New York, N. Wilarch 29th, 1916.

Ask of he can formed Magnewilly Br. Thomas A. Editor Inc.

Orange, We weent trention fine

Dear Sir:-

With reference to bagnesium Chloride would

say that our producers now advise that the grading of which we submitted a sample runs/35% Magnesium Chloride. It is the medium grading and suitable for use by manufacturers of flooring material. However the producers are enabled to match any grading or quality or specifications and will be glad to have state just what the requirements and they will make up a sample for us. The various gradings run from the chaspest quality for technical uses up to the Chemically Pure. We trust that your Mr. Headowcroft will pass the particulars to -r. Edison for consideration and a statement be given to us as to your setual requirements. We are prepared to handle any proposition you may present to us.

GIIL-GJK

Yours truly, mosphiling dr. bowling:

This memorahdum is simply for you to keep as a record of the transaction which it covers.

on last funday night your plant was running entirely out of Measol. .. e had seven cure coming towards us on the reliroud, but finding that there was no prospect of any delivery for two or three days. I authorized Mr. Zanmerhoff to lown you \$1.00 gallons out of tank car which he had received two days before.

As there was no probability of our rotting in any of our tends care defere today (Thursday), I realized that is o drow any tends on the Mannerooff's caugaly that such supply total be exhausted in less than two days, and both plants would have to shut down. Therefore, on Tuesday morning, I amunaged to cocure from the american will & Supply Company, Il drums of Bonsol for immediate delivery. These were sont over my truck at once by the american will & Supply Company, giving your plant sufficient to run until yester-day morning.

although atronuous endeavors tero made by Mr. Rogers to accure delivery of a tunk car of Sensol, it was found impossible to set a car yesterday.

I again ampouled to Dr. Hoffman of the American Gil & Sumply Compeny, asking him if he could heap us out by immediate delivory of 11 dore drums. He said he would borrow it drums of Bonsol from one of his customers, and truck it right over to us, and we could re-fill the drums out of the first car we received and send them could re-fill the bridged over until today. Hr. Hegers assumes me that a cur of Bonsol from Tydnoy is coming up from Jercey City and will be at Silver Lake before 12 o'clock noon.

ALL CONTRACTS BURJECT TO STRINES, ACCIDENTS AND CAUSED BEYOND OUR CONTROL ADDRESS ALL BUSINESS COMMUNICATIONS TO THE COMPANY AND NOT TO THE OFFICERS OR EMPLO

> CHAIR TEO.

D.E. WILSON, YMEASURER nennear estimate in the

WOODWARD IRON COMPANY

WOODWARD, ALA. March 31, 1916.

Mr. Thomas A. Edison,

Orange, H. J.

Dear Sir:-

Mendomroft's letter of the

We are in receipt of Mr. Meadoworott's letter of the 27th and note that you have sold another carload of flaked raphthaline for April delivery at 11th per pound. We also note that you can sell a second our for May shigmont at 11th per pound.

. It is our belief that by spraying the sides of the subliming building we can maintain our production as this ought to keep the metal lining of the building sufficiently cool. We are making the mosessary arrangements to experiment along these lines.

We note that the prices quoted above are f. o. b. Newark, W. J., subject to 1% discount for cash.

Yours truly,

WARRIADD TOOL COMPAN

Vice President.

rhb-b

Edison General File Series 1916. Chemicals (E-16-16) April

april 1st. 1916.

Dr. William Knocht, Rue du Righi 47, Zurich, Switzerland.

Dear Sir:

I have just received a memorandum from Mr. Edison, to whom I sent your letter of the seventh ultime.

He wishes no to may to you that he does not intend to go into the manufacture of aniline colors, but he is now making earsphenylenediumine, and would be willing to pay for a chester process than he is now using.

At the present time he makes Paraphenylemediamine by nitrating meetinillid and then reducing by iron, but this is a very expensive process because of the high cent of Glacial meetic acid here at the present time.

Yours very truly.

Assistant to Mr. Edison.

April 3rd. 1916.

Keith Car Company, Peoples Cas Building, Chicago, Ill.

Gentlomen:

I beg to confirm the following telegram, which was sent to you this morning:

"Mr. Edison wishes to renew leases on all tank care montioned in your recent letters for one year. Please and leases for signature. Can you lease one additional cur, and how quick!"

I have received word from Mr. Edition stating that he wishes to renow the leases for one year, of all the tank ears mentioned in your recent letters. Hence the above telegram.

I trust you will be able to rent us one more car to put in our densel service.

Yours very truly,

Assistant to Mr. Edison.

Ok give Wallely the pril 3rd in 1916.

Mr. Edison:

You undoubtedly remember the fact that our friend Mullaly made a few Aniline contracts for us last year, and you allowed him a commission of 5%.

Among these contracts were those made with American Printing Company and Hollander which ran to the end of last year. We renewed with these two concerns ourselves for the year 1916, the american Printing Company taking 8,000 pounds of Aniline Oil per month at 60%, and Hollander 6,000 pounds of aniline Salt per month at 85%. I told Mullely that as we had taken this renewed business we could not allow him commission. He feels, however, that as these customers came to us originallythrough him, we ought to conform to the useage of the trade and allow him a 1% brokerage, and he asked me to lay this matter before you and get your decision.

When Mr. Hoffman was in this morning I thought I would ask him as to what would be customary in a case like this. I stated the facts to him, without using any names whatever, and asked him what he would de in such a case. He said that while there was no legal liability, there was good moral ground for allowing it, and if it happened with his concern he would allow a 1% brokerage without hesitation. He thought the man, who ever he was, was very moderate in asking only 1%.

Mullaly has been very useful to as on several occasions, and is always willing to put himself out to get information for us. mr. 43. miller: + go Olease note: + go yourself mythesopours 4 mg/hleasopours What do you wish to do in the matter?

MEADOWCROFT.



### SILICA PRODUCTS, COMPANY

PRODUCERS AND REFINERS SILICA SAND - FIRE CLAY FOUNDRY SPECIALTIES 436 WEST ONTARIO STREET CHICAGO

April 3, 1916.

Carbolia

Mr. Thomas A. Edison,

Orange, New Jersey.

Dear Sir:

See attacked Answering your wire regarding the carload of Magnesite. (a(cine).

Our Mr. Hyatt has been in California for the our Er. Hyatt has been in California for the past two weeks and will return to Chicago on Thursday of this week. Immediately on his return we will advise you definitely as to the shipment of your car.

We regret very much that this has been so delayed, but we were advised by wire a few days ago delayed, out we were advised by wire a lew days ago by hr. Hyst that the rains were still very severe and this has held up the erection of the plant. We are of the opinion from what information we have that it will be two or three weeks at least before your shipment can move.

We certainly regret this very much, but have

| done everything in our           | power to try to harry thanks                                     |
|----------------------------------|--|
| /                                | Very truly yours,  |
| The Grecian Oxide cof            | SILICA PRODUCTS COMPANY  |
| Magnessa we buy from             | Harry EBlood,  |
| ochecl wece help u               | perhaps you beller bery 20 Tons                                  |
| - austral offered                | aret from clared how you a                                       |
| brown ding to                    | 11 then celler of Jeby 26, that control to stup. They control of |
| Calined magnesite                | Manghayea Cottoride Tour   |
| I have asked several days before |  |
| 19 hours 10114 April 6/16        | Meanweigh  |

april 4th. 1916. buckste

#### Mr. Kammerhoff:

I have received your memorandum of the 29th ultime in thich you state that you are resulted to give a delly report choring the orders for pure Phonol that you have on hand, and new orders received.

So for us the month of March is concorned, you already have the figures for Moneante and the 75,000 pound order for Mitual 1 Company. In oil Homeante, that was finished in March, and us to Liteui 1 company, I understand you expect to finish this order during the present week. All 1 you now please enter the following as order to be filled by your plant:

- l. Picstin.y arconel, 6,417 pounds every 30 days until pril, 1917. Frice 164 per pound.
- 2. United states Navy, 16.88% pounds for month until april, 1917. Frice t6¢ per pound.
- 3. 2. H. Souibb a Sone, the pounds per working day (instead of EDD pounds) until the end of the year 1916. Price 77 1/2¢ per pound.
- 4. Inomas a. Edison, Inc., and Plant, S.143 pounds overy deg. (including Sundays) until further orders. Price as accust.
  - t. Mitual is commony (a now order) 124,400 pounds, to be waitpoed in ownal monthly thispants, spill, bay, James and Jally 1916. For the information of your Billing Department to two cut that it to be willed to litten's company at 764 per pound, and seconganging owned full it to so a credit nomeroradum is favor of sitemia atoms, or for for pound. This makes the not price received by us from situal & Company 764 per pound, but shipments are to be billed in accordance with the above instructions.
- 6. amorican oil & Supply tompany, 1,286 pounds per day (including Sundays), april lat to Docomber Flat, 1916. Erico 72.66 per pound.
- Robert T. Lorier, 1,000 pounds per week until December 21st, 1916. Erice 80¢ per pound.
- 8. J. .. batkins Modical Company, Minona, Mino., 500 pounds per month from april to becomber, 1916. Price 81d per pound.
  - J. L. Latking Modical Company, New York City, 100 pounds per month up to the end of the year 1916. Price 8td per pound.
- 10. Etrocon-houter & Hancock, Inc., Chicago, 250 pounds per month class to the end of the year. Frice 8td per bound.

For our mutual information : have figured out the above orders on a daily

basis, so that we may see how accely the total approximates your duily output. In figuring this, I have calculated the daily output at the rate of 50 days to the month.

| ontn.           |                   |                         |                   |                   |
|-----------------|-------------------|-------------------------|-------------------|-------------------|
| Picatinnyrsenal | 181               | pounds                  | por               | day               |
|                 | 530               | **                      | u                 | "                 |
|                 | Elt               | 11                      | 17                | "                 |
|                 |                   | 17                      | 11                | "                 |
|                 |                   | u                       | "                 |                   |
|                 |                   |                         | #                 | "                 |
|                 |                   | 11                      | "                 | **                |
|                 |                   |                         | 11                | "                 |
|                 |                   |                         | ,,                |                   |
|                 |                   |                         |                   |                   |
| Totel           | 1,642             | inelud                  |                   |                   |
|                 | Picatinny Aroenal | Picatinny Arcenal   181 | Pleatinny Argenal | Pleatinny Aroenel |

If your everage daily production is greater than the above, so can cell at epot prices unless it becomes message to apply it on other contracts thich we have.

W. H. MENDOWCHOFT.

Mr. W. F. Dowling, Division Manager, Aniline & Phonol Flants of T. A. E. Personal, Silver Lake, N. J.:

Answering your letter of March 22nd with reference to the advisability of cancelling certain Shop Orders, we have gone into this matter with the results shown below.

You suggest the cancellation of the following Shop Orders:

#3870 covering labor and material of constructing the Amilino Plant;

#3871 covering labor and material of constructing the Phenol Plant;

\$3970 covering labor and material covering repairs to machinery and equipment Aniline Flant;

#3986 covering labor and material covering repairs to machinery and equipment Phenol Plant;

#4042 covering labor and material operating manufacturing expense items Aniline Plant;

#4043 covering labor and material operating manufacturing expense items Phenol Plant;

We have arranged to close out Shop Order #3970.

Shop Order \$5871 will have to remain open for the present, as there is still work being done on the Phenol Plant.

We have arranged to close out Shop Order #3970, #3986, #4042 and #4043.

In accordance with our conversation, you will in future send us separate orders for any work to be done which heretofore has been covered by Shop Orders Hos. 3970, 3986, 4042 and 4043, such orders automatically to be closed when the work on them has been completed.

We asked you some days ago to sond us orders to take the place of some of those cancelled as follows, which orders you have not yet sent us, and which we would be glad to have you at one, so that our charges may be properly distributed:

First Order: Experimental Work Aniline Plant;

Second " " " Phenol "
Third " Selling and Administration Expense at

Third "Selling and Administration Expense at Laboratory Aniline Flant;
Fourth "Selling and Administration Expense at Laboratory Phenol Flant.

We are transferring to your Pay-Roll Chauffour Fentslaff, who has previously been on our Pay-Roll here, and whose time has been charged equally to the Aniline and Phenol Divisions.

of my investigation I have found that the laboratory and the other works in the I have found that the Laboratory and the theore is the I have found that and the semployous attained theoret are fully conversant with the numbers of our Shop Orders, and charge a portion of their time to them, although they render us no service. "While overy effort is excerded here at the Laboratory to see that time and labor in properly charged one clinicity orders there has been at times some abuse such as you mention. Under the plan laid out above however, this should be overcome.

Secretarial Service Dept.
of Thomas A, Edison, Personal

R. Herrow, Assistant Secretary.

C.C. to Mesers. Mambert & H. F. Miller.

RWK/L/H

\Fl. F. Kuendig CHEMICAL-TECHNIC Dear Sirs. acid for what pulice can you a position to supply you with some rational processes for the manufacture of pharmaceutical preparations, intermediate products and dyes, and beg to enclose you a list of same. These processes are all taken from the wholesale manufacture, and have been managed by our own experts a long time, so that you may be assured, and undertake the manufacture without any further thing, according with our processes and drawings. Please let us know for which processes you are interested, so that we may give you more details about. With interst we are looking forward to your kind reply, and beg to remain, dear Sirs, Still they come is sure from the party of Salt pernaphendens, Parandophend Tophenge we large grant we have a grant tophenge we have a grant tophen Yours faithfully,

JWJ.FuL.

All communications should be addressed to "Commanded Opping, Picatinny Address, Dover, N. J."

Commanded Opping Picatinny Address:

TELEGRAPH. EXPRESS.

FREIGHT ADDRESS, PICATINNY ARSENAL, N. J. N WHARTON & NORTHERN RAILROAD. try lost

ICATINNY ARSENAL, DOVER, N. J. April 6, 1916.

lêr. Thomas A. Edison,

Orange, N. J.,

Dear Sir:-

Replying further to your favor of Yarch 16, 1916, as to supply of Phenel in greater quantity than we are not taking from you, I am informed by the Ohief of Ordanes, U.S.A., that no funds are now available for ordering from us an increased supply of the explosive in the manufacture of which we use Phenel.

There is strong probability that when the present Congress passes the Pertifications Bill ponding, we shall receive orders for greater preduction and be in the market for sere Phencl. Then we shall, under the law, be required to invite bids and still hope to receive yours.

Thanking you for attention to our inquiry and regretting that I cannot now take advantage of your offering, I remain

Respectfully yours,

t.Col.,Ord.Bopt.,U.S.A., Commanding. NEW YORK

HOUSTON

MEMPHIS

SAN FRANCISCO

WINNIPEG Clickela



# THE J. R. WATKINS MEDICAL CO. WINONA, MINNESOTA, U.S.A. APril 6, 1916.

Thos. A. Edison Laboratory, Orange, N. J.

Gentlemen:

What would be your price on 400 lbs. of U. S. P. Carbolla Acid Crystals to be taken out such month for a period of six months, and also your price on 200 lbs. a month for a period of one year? 8131

one year?

CKG-J8. M. Edison:

We already have a small embrast with them (come as above) at 85° embrast. I think we could merry the above also, but no U.S.t. trily sele on sample. I would assuic quoting 80 cods. Bettern him display out of theme medit.

## Western Union

Barbolic

## NIGHT EETTER

SEND the following Night Letter, subject to the terms on back hereof, which are bereby agreed to

Orange, N.J. April 8th. 1916.

Thomas A. Edison, Fort Myers, Fla.

Wrote Thursday about Magnesite. Here is later information. Scheel has on dock fifty tome Orecian powdered calcined. Contains 90 to 92 per cont toxic as general and one and hell per cent lime. Remainder slumine to 100 dollars ton. On account great demand instant action necessary if you want it. As to Chloride Magnesium Scheel can get two three weeks from Restern manufacturer any grade you specify. Price sixty five to hundred ten dollars ton according to purity. Scheel does not know enalysis chloride he supplied last summer.

MEADOWCROFT.

4043

Noted Mustown Va. april - 8-19 Mr. Mason .. Shis is a little inside dope ou taphtholius, a question, which is going to be put up to you before many days O luder the give of the Union Chemical Co- The following (that I know of and interest ) shirt, ogden, and clark are operating a. chumical plant and they are starting in to wake floked toptalme, This plant is not at the Camba steel "Co's plant but in Johnston a Mr. The shounding is gaw. My Sley are taking the Casalina haptholine as fast as they make it and want make I think have turned their attention to ours - and me looking up our contract, Mr. Whiteter, (Mr. Slicks Sec.) claims that as nothing was said in the Contract between ler, Edison and Combra in reference to Napthaline, That the hapthalue belongs to Cambia -The manies above mentioned are very silent pardure and it is not

generally known they are Vinterested so use cair, when necessary to use Their names, as is were get me in wrong - She alone factor I. have gathered up in the last few days of so you can lay your flows Jaccordlugly Jellin Bacan I thing - they were with the Euron-Mr Edison. Phase note -

Frater

DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

Moodward Tile unter

WASHINGTON

PFICE OF THE DIRECTOR

son, (

April 8, 1916.

for 1915

Dear Mr. Edison:

The Geological Survey is compiling statistics of the by-product coke industry, and has been informed by the Cambria Steel Gommany that for a statement of the production of bensol, tolucel, solvent nephtha, and maphthalone, and the value of the products, at the Edison Plant at Johnstonn, Pa., application should be made to you. A blank for the desired data is inclosed herewith, and an envelope for its return which requires no stamp. Information of this character is held strictly confidential by the Survey, only totals for the United States, and their values, being published.

INCLOSURES (2)

Mr. K. Class

but latin

Maic 10, 1916

night Letter

Thomas a Edworn
Fort Myers, Florida

Very glad to say am sending
more encouraging news about new disc
records. Moore has been wearing a glad
omite all day. He was a dark blue
all through last week. Have seemed
trough fine tom magnesite.

Meadowerft

April 10th. 1916. Locustolic

Mr. Edison:

I do not want to trouble you with one thing more than I can possibly help, but think that you would perhaps be interested in seeing this letter.

I received your telegram to buy 25 tons of Calcined Grecian Magnesite, powdered, and had Scheel on the telephone long before nine o'clock this morning. The 25 tons are bought and will be shipped out to Silver Lake within the next day or two. I presume you have instructed Mason about how to use it.

Enclosure.

We cannot about the time the college of the control of the time of the college of

memo

april 10th. 1916.

Mr. Brady:

Will you plouse issue an order on Thomas ... Edicon No. 2 Thomas Plant, Edivor Lake, for the following:

> 10 gallons Benzol 20 rounds Phonol.

There are to be delivered to ir. Indreas in the Chemical Loom, here at the Laboratory, and those materials are to be used in the manufacture of Paramido Phenol. Ar. Laison instructed Er. Andrews to manufacture this material in a small way during his absence, and these surplies are to be charged to 4185.

W. H. MENDUCKNOFF.

cc. to Mr. Kollow.

Er. Dowling:

I understand from Mr. Burton of the Carbolic Mixidion that the Carbolic cupilled to Mitteut & tompany from Mr. Resmortherfte Plant is billed to your livicion, and in turn billed by you at the same price to Mitcui & Company.

I had not been advised of this practice until this morning. However, this is not said by way of criticism, nor have 1 any fault to find with the arrangement.

The purpose of this note is to advise you that it. Adm-morhoffs plant is about to commonce making deliveries on new contract with Mitcui & Comerny for 184,400 pounds, to be shi sed in monthly chisments during upril, May, June and July, 1916. For the information of your Milling Department let me may that this Corbolio is to be billed to liteni & company at 76d per pound, and accompanying each bill is to so a credit memorendum in fever of Mitcui & Company for 6d per pound. This makes the not price received by us from Mitcui & Company 70d per poune, but this ments must poutifully be billed in accordance with the above instructions, which are part of the conditions of our contract with Mitcui & Company.

In order that there shall be no misunderstandings upon the records, in Assumerhoff's plant will bill the shipments to you at 76 $\mu$  per pound, and seconganying each sill with a robute for 6 $\mu$  per pound. I have telephoned to lin Burton to this effect and have cont him  $\mu$  cony of this construction.

W. J. ME .. DOUCHOFT.

and him

april 11th. 1916.

Mr. W. S. Curpe.ter, Jr.,
Assistant Director,
Development Department,
E. I. Du Po. t De .emoure & Co..
Limington, Del.

Dear Dr. Carpenter:

Mr. Edison has an idea that probably your Company may have some "Mind Acide to contract out for the year 1917. If that is so, can you say at this time whether you will be open to supply say 330 tons a month for the year, and if so at what price. Our formula is as follows:

59.00% H2SO4 26.27% HNO3 Yours very truly.

Assistant to Mr. Edison.

andhas

April 11th. 1916.

Mr. J. A. Durking, Vice President, Butterworth-Judson Company, 61 Wall Street, Hew York City.

Dear Mr. Durkin:

Mr. Edison would like to know if you are prepared to consider a renewal of our dised acid contract for the year 1917. If so, will you kindly lot me know what is the best you can do on the matter of price. He has sent me up a memorandum from Florida seking me to collect all this information for him so that it

will be ready upon his return.

Yours very truly,
Assistant to Mr. Edison.

april 11th. 1916.

Mr. Philip E. Smith, Acting Director, Department of the Interior, United Lates Goological Survey, Washington, . C.

Dear fir:

Your favor of the eighth instant to Mr. Edison has been received this morning. He is away on a few weeks vacationin Florida, and we do not expect him to return until the first week of May.

We are sonding him as little mail as possible, as he was very much in mood of rest, heving hed no vacation for mearly two years. We will get the data together and have it ready for him by the time he returns, so that he may write you in person, if it will not then be too late.

I assume from your letter that the value of the eroducts is to be the value at the works, not the selling price.

Yours wory truly.

Assistant to Mr. Edison.

ARTHUR WILSON DENNEN 19 Cedar Street,

How York.

anril 11, 1916.

Thomas A. Edison, Esq., lest Grange, New Jorcey.

Doar Sir:-

On bohalf of tol. John 1. Levis I beg to advise you that if: here is interested in the contract between journoif and herbort levis of this city for the sale of a cortain quantity of tolaol by you to the infitth Jovernment through J. J. Lougen a Co. of this city. That ir: heris his a country of this J. Levis wherein the fact is the contract of the contract of the contract of the contract of the fact. I have been preceded in the contract of the contract of the fact. Levis under your contract with his contract of the contra

has a ready been reid by you between Nourteen has fitteen handred dellors, no part of which hir lowle has a fitteen handred dellors, no part of which hir. Lowle has maid to 60. Beet dunder the contract with Cell, havin; I like understand that an weetgrament of Ar. Jowie's commission to the Equitable Trust Company and been soured upon to the Septimble Trust Company and been soured upon a contract with the Company and to the time of Ar. Jowie's contract with Ar. Bevis and on to the time of Ar. Lowle's contract with Ar. Bevis and

3y remen of the wave facts, I desire to notify you, on boinif of an expire, not to buy any farmed or expined on account to either in Levie of his safence or the eithere on account of the safence of the safence of the safence of the safence of the safence of accounts; otherwise to shall be compelled to not your company perconally liable for it. David Autorest in ead contracts

I would really appropriate your acknowledging receipt of this letter.

Very truly yours,

(gigned) A. W. Donnon.

ALD/MR.

L. Johnson

D

#### INCUIRIES FOR ANILINE OIL

Sewrices Mibbon & Curbon Co. Hochester, E.Y. March 15, 1016--unknown.

Beese Bubber Company, Inc. Treaton, E.J. March 21, 1916--300 gellome.

Expertyn Company, Inc. 15 Pine 't. Low York City-Peb. 28, 1016-300 tone.

H. .. Forbes & Co. 18 Broadway, New York City, March 27, 1916-- unknown.

Hish Joint Desirey Mills, Hish Foint, E. C. Feb. 28-- one ton per month.

Iclaughlin Corming Fing Co. 1 Pint Ct. 1, Y.C.-Jon. 29, 1916-100 gellome.

Circom-Rauter 2 Hancock Inc. 15, Lurch 29, 1918-0 mod Trun.

Liveson-Rauter 2 Hancock Inc. 16, Lurch 29, 1918-0 mod Trun.

Liveson-Rauter 2 Hancock Inc. 16, Lurch 29, 1918-0 mod Trun.

Liveson-Rauter 2 Hancock Inc. 16, Lurch 29, 1918-0 mod Trun.

Liveson-Rauter 2 Hancock Inc. 16, Lurch 29, 1918-0 mod Trun.

Liveson-Rauter 2 Hancock Inc. 16, Lurch 28, 1918-0 mod Trun.

Crown Hostery Mills, High Joint, J.C. 16, Nov. 26, 1918-106, 1908-108, 1918-108, 1918-109, 1918-100, 1918-

#### IN UIRIES FOR CARBOLIC ACID.

Eastman Kodok Co. Sachastor, H.Y. Murch il, 1916. - 5,000 to 10,000 pounds. E....doobbon Co. Inc. SIT Viercer St. H.Y.C.-Lurch 24, 1916-100 lbs. month. Moone Chemical Co. Sachastor, W. Harch 25, 1916.-500 lbs. to 1000 lbs. monthen Commission Co. Sachastor, W. Harch 25, 1916.-500 lbs. to 1000 lbs. monthen Commission Co. Sachastor, C. Sac

#### INCUIRIES FOR PARAPHENYLEMEDIAMINE

The attesux Djestuff & Chemical Co. Ltd. 41 Collegens :t. Toyonto, Canada' Oct. 4, 1915-5,000 to 10,000 lbs.
Boston Blacking Co. East Cumbridge, Hess. Sopt. 16, 1916- unknown.
F. Bradt & Co. 240 Water ft. H.Y.C. Nov. 13, 1911, unknown.
Backmeier & Co. Underhill Bidg. H.Y. Sopt. 27, 1910- unknown.
Floe Bruncene Co. abbury Brak, H.J. Sopt. 27, 1916- Eb to 100 lbs.
Chomical Dye Mfg. Co. 522 Carloton Bidg. St. Louis, No. March 9,1916.3,000 lbs
Elmor-Lendelbor Co. 30 best St. H.Y.C. Sopt. 10, 1916- unknown.

Fromch Steem Dye Sorke, 46 Circle, Indianopolle, Ind. Dec. 6, 101L-unknown, sense a. Orry 182 Last 64th St. Biv.C. Sopt. 89, 1915-- unknown.

Immn Borzig 2 Sone Co. 48 Boot 25th St. Biv.C. Hov. 9, 1915-- unknown.

International Chemical 2 Munition Co. 76 Deronshire 2t. Souton, 1688.

Goorge E. Keith Co. Cumpello, Mass. Hov. 11, 1912-- unknown.

Kelle Color Chamical Co. In The Color of Deronshire 2t. Souton, 1688.

For Loc. Lannahetmor-/ The Joviah Community of Biv. 22, 1911-- unknown.

Bow York City.-- thouseand 1b. 1048.

Arthur J. Hosworthy, 375 Fulton 2t. Brooklyn, 174. C., 365 Cecond .venue,

Bow York City.-- thouseand 1b. 1048.

Arthur J. Hosworthy, 375 Fulton 2t. Brooklyn, 174. March 16, 1916.-unknown.

Bow Hore Co. 202 E.29th St. Biv.C. - Boo. 16, 1915-- akanown.

E. B. Erone J. Chamical Co. Book Brooklyn, 174. March 16, 100 to 200 pounde.

E. J. Forther, 106. . Methhattan vo. Jersey City Heighte, Bid. Oct. 1, 1916.

R. E. Street 2 Co. Inc. 561 L. Weshington 2t. Chicago, 111. Dec. 17, 1916.

Champson 2 Co. Betroit, Mich. Popt. 14, 1916 unknown.

J. D. Alliams, Inc. 267 Colorlyn, 184. Sept. 14, 1916. Unknown.

Winttomore 1908. Comp. 16 albang 2t. Cumbridge, Mess. Oct. 14, 1916. unknown.

M of Moder

april 12th. 1916.

Secretary of the Treasury, Eashington, D. C.

S I R:-

ur. Edison wishes to ascertain what, if any, duty is payable on crude manithaltine and sublimed maphthaltine coming from Canada to this Country.

Availing the favor of your reply, I remain,
Your respectfully,

assistant to Mr. Edison.

## Anilin Time Fiedieral, Girarhige I



AGENCIES IN ALL PRINCIPAL CITIES FEDERAL PRODUCTS

FEDERAL BOILER GRAPHITE FEDERAL FLAKE GRAPHITE FEDERAL GRAPHITE PAINTS FEDERAL HOT SURFACE PAINT FEDERAL HOT SURFACE PAINT FEDERAL ELASTIC COMPOUND FEDERAL PULLEY FACING

Please address reply to New York indica

CLEVELAND, OHIO.

NEW YORK OFFICE, 120 Liberty St. A

Herre 2012 Phone, Rector duiz

Edison Chemical Works, Silver Lake, H.J.

Gentlemen:

we are informed that you manufacture and interested in sails and would appreciate very much having you advise us whether you would be interested in crushed iron, which we manufacture and the sail of ture as a by-product in our Foundry Supply IH11, connected with our graphite business.

During the past months, we supplied some very large firms in your line with this raw material for the purpose, as we understand, of substituting hydrochloric-scid by a new process.

If interested, would be pleased to submit sample and prices in tons and carload lots.

Hoping to be favored with your prompt attention, we beg to remain,

Very truly yours,

THE FEDERAL CRAPTITE MILLS.

JDL.EJ

J. D. LOOG, Eastern Selling Agent.

Mr Edison

I would say for a new one on me. pulverised meadower

Whithere All Mason of he auch spril 13th 1916, Joseph

You will remember that Mr. Mabon sent you down memorandum a day or wo ago in regard to happthetine at Johnston.

This afternoon I had a blighone cell from Mr. Slick's office at Johnstown. They said that we had ablit a bution of or pade limiting in a transfer beneal Plant, and he was a but a bution of or pade limiting in the trade transfer that you, they wanted to see it they could not arrange some disposition of it. I told them that although it was not specifically mentioned in the contract, it had always been in your made that the Maphthaline would also belong to you, to be paid for, of course, if you took it away, on a royalty basis at the rate you paid for Solvent Maphtha. They said they were not aware that you had had the Maphthaline in mind, but if that was so, they would like to have a proposition from you.

I told them that at our moodward Plant the ame condition had prevailed, but that down there we were subliming it, and paid the moodward Iron Company a royalty of 1 1/4¢ per pound, which was on the basis of Solvent Maphtha at log per gallon. They said that a local concern at Johnstown was subliming Maphthaline, and that they (Cambris Steel Company) sold their orude Maphthaline to this local concern. I said that the, only thing I could do was to write to you this afternoon and lay the facts before you. They said that they were very desirous of having the matter stranged as quickly as possible, and requested me to ask you to kindly write immediately and say what you were willing to do about it.

I jave just spoken to Mr. Mason about it, and he says it is not worth while to put up a sublimer at Johnstown. Anyway.we have only about a car-load of the crude Haphthaline at Johnstown, and it would scarcely pay to ship it to Woodward to be sublimed. This carload is the accumulation of about a year.

a year.

March occurrence very truly.

Was March occurrence with the word truly.

THE EQUITABLE TRUST COMPANY OF NEW YORK

HENRY E.COOPER, NICE-PRESENT PREDERICK W. FULLE, VICE-PRESENT HEMAN BOWD, WISE-PRESENT LYMAN HHOADES, VICE-PRESENT

DEGINALD W POESSPOICH, VICE-PARALETAT H. MERCER WALKER, TREASURER BICHARD R. HUNTER, BECHETARY HERMAN J, COOK, ABST, TREASURER CARLETON BUNCE, ABST, TREASURER AND ASST TO THE PRESIDENT

COLONIAL BRANCH, EZE OPOADWAY FIFTH AVENUE BRANCH, GIO FIFTH AVENUE LONGON BRANCH, 95 GPESHAM STREET, E.C.

JOSEPH H. BARGOCK, ASST. BECKEYARY MILLIAM W. ECH, ASST. SECRETARY DUNCAN P. SQUINE, ASST. SECRETARY DAMIEL ARMSTRONG, ASST. SECRETARY SAMUEL ARMSTRONG, ASST. SECRETARY ROLAND P. JACKSON, THUSTOPPHER CHARLES H. MARFIELD, ASST. PREASUR CHARLES H. MARFIELD, ASSI, MRADUMO WORCESTER BOUCK, ASSI, ALGORITAN ARTHUR A.MILLER, ASSI, TORADUMER G.L.LE BLANC, HOR FOREIGN EXCH DEPT. HERBERT A. CONNER, AUGITOR

April 13th, 1916.

Laboratory of Thomas A. Edison,

Orange, New Jersey.

Dear Sirs:-

AAL/EP

Referring to our letter to you under date of July 20th, 1915, in the matter of commissions due Fr. Herbert Lewis, assigned to this Institution, will you kindly advise us at your early convenience when we may expect another payment under said essignment and the number of gallons of Tolucl still to be delivered by you under said contract.

> We would appreciate a prompt reply to this letter. Yours very truly.

Alleian Assistant Treasurer.

April 14th. 1916. Probable

OHL TUR

Mr. Edison:

Blay to I have not answered the attached le opinion it is merely a fishing expedition to find out the

number of gallons of Toluck still to be delivered under the contract so that Lewis can bring suit against you. Of course, we shall have to answer the question

sconer or later, but in the meantime, and until you return Borth, it would be my plan to pursue dilatory tactics, namely, by replying to this letter and saying that we do not know when the Equitable Trust Company can expect another payments, as we cannot make shipment on account of an embargo laid by the railroad companies. They will reply to this repeating the question as to the number of gallons of Toluch still to be delivered, and we can simply delay replying to this a few . days longer.

W. H. MEADOWCROFT.

MHUL

Enclosure.

.pril 15th. 1916.

The J. R. Watkins Medical Co., Winona, Minn.

#### attention of Mr. C. K. Goldsborough.

Gentlemen:

Your fever of the sixth instant was received, but b fore replying I was obliged to consult with Mr. Edison who is in Florida at the gresent time.

I have just received word from him that he is willing to contract for a period of six months, commencing June
lat or July lat, whiever, you prefer, for 400 pounds per month
of Carbolic Acid cryctals at 80% per pound. We could not guarantee
the Carbolic to be atrictly U. E. P., but it would be of the
same quality as we are now shipping to you. This cuotation is
made subject to prior sale.

I regret to say that we shall be unable to make you a quotation for a monthly supply covering a period of one year, as we have not yet secured our acids and other supplies for next year.

Yours very truly,

Assistant to Mr. Edison.

J. DU PONT DE NEMOURE & COMPANY DO COMPANY DO COMPANY DE COMPANY D

It is quite probable that our good friends the various Acid Compenies, such as the General Chemical Co., Grasselli Chemical Co., Butterworth-Judeon Co. or Contact Process Company, could handle this business. If you do not see your way clear to contract for your tonnage with any outside concerns, we would request that you take the matter up again with us, say Jupe let, at which time our position regarding 1917 will be very much clearer.

We thank you for having placed your inquiry before

us.

us as out of the market.

lespedtfully,

PEG/HW

pur bua

April 17th. 1916

Mr. John Bacon, Jr., The Edison Benzol Plant, Johnstown, Pa.

Dear Sir:

Will you kindly send me a statement showing how many gallons you have shipped of Bensol, Toluci and Eolvent Haphtha since the plant started up to the date of your last shipment. All I want is the grend total of each one, nothing in detail. Flease slee state the date of the first shipment and of the last shipment. If possible I would like to have you get this off to me by the end of the week. Mr. Edison wants those figures.

Yours very truly,

Assistant to Mr. Edison.

Wookward

april 17th. 1916.

Mr. Claude H. Opdyke, 5. The Edison Benzol Plant, Koodward Iron Company, Woodward, Ale.

Dear Mr. Opdyke:

mill you kindly send me a statement showing how many gullons you have shipped of Bensol, Toluci and Solvant Herhtha since the plant started up to the dute of your last shipment. All I want is the grant total of each one, nothing in dotail. Flease also state the date of the first shipment and of the last shipment. If possible I would like to have you get this off to me by the and of the week. Mr. Edison wants these figures.

Yours very truly,

Assistant to Mr. Edison.

P.S. Please also give me the same information for Sublimed Haphthaline.

Mr. Edicon to contemplating the possibility of putting in a special plant to manufacture Form and of Phenol. He is in Florida, but will probably be back within the next two wooks. Before he went easy he started one of our chemists on a little experience of plant, and the work has been joing on during his absonce, and we are producing a very small quantity in the Laboratory.

Pure mide benool is used for some other urpo as besides photographic purposes. Photographic requirements would demand a puror product than the other purpose move mentioned, the latter product being known as "commercial".

let you know about this and to girl devenee of ir. Edison's return to de in the product if near of the det whether you would be interested in the product if near the product is not near the plant. I have not appropriate the product is not seen that the product is not seen that it may be not seen to product the product in the product is not seen that I am sure the Edison would not to have me take up the matter thin your concern have been as extensive for some years past that I am sure the Edison would not to the product to have me take up the matter thin you not not consider a seen that the product is not considered the product of the product is not not common that the produced some of the commontal, and even with this we have developed both plates and prints very satisfactorily.

Yours very truly,

Mr. Televen with see in marketistent to Mr. Baison.

Here with see compraise of a marketist of the marketist

. A. Edison, Benzol Plant bambud

Tohnstown, Da., Woul - 18 191 6

- Ur. The A Meadow croft.

Orange. A. J.

Werr Sir: Collacture place a Lind statement when the

of stepments of products from the

date - I hust this will give .

you the desired impunation -

John Buen /2

Stanton Par april 18/16.

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1. April 18/16.

mpril 18th. 1916.

Swedish Chamber of Commorce, Produce Exchange Annex, New York City.

Gentlemen:

Referring to our telephone conversation this afternoon, we begt to say that we use return that there is a domand by Swedish raper manufacturers for Sulphite of Soda, and as we are producing this material at the rate of about a ton a day, we desire to call your attention to that effect.

We will forward a sample of our product to you, and chal be glad to have inquiries referred to us.

Yours very truly,
Edison Laboratory.

night Letter

Carbolic

Apric 19. 1916.

Thomas A. Edison Fort Myors, Fla.

Sorry to say we are running short on occum. Have enough for over this menth, but our contract for one hundred fifty tens per month will not be enough. Masen says with want morely as much more. They twenty thousand penned day. God elemination hundred fifty delands ton. Hoffman has option General for smooth all channels do not hundred dollars for Mill shade if possible, but recommends accepting. Energy is shepping assumdated. He will not have as much minely eight per crut over as you thought. I have gone over whole situation today with masen and

Kammerkoff, Better wire your instructions quickly. W. H. Meadowere/L

# WESTERN UNION

NEWCOMB CARLTON

FORT MYERS FLO APRIL 20-16 W H MEADOWCROFT

EDISON LABORATORIES ORANGE NU

IF MASON USING TWENTY THOUSAND POUNDS HE IS MAKING TERRIBLE LOSS SOMEWHERE ONE AND SEVEN TENTHS POUND OLEUM GIVES POUND PHENOL BY MANY TESTS AM WILLING BUY THE EXTRA OLEUM BUT THESE LOSSES VERY DISCOURAGING WHY DOES KAMERHOFF TAKE WHOLE MONTH TO GET READY TO USE NITRE CAKE WHICH RELEASES PLENTY OF ACID IF THIS IS PUSHED YOU WILL HAVE ACID TO SELL.

EDISON 225AM

# WESTERN UNION

RECEIVED AT 21 NY H 33 NL VI CHICAGO ILLS APRIL 20-16

NEW P MEADOWCROFT

CARE THOS A EDISON ORANGE NJ

THANKS FOR WRITING US REGARDING PARAMIDOPHEMOL PLEASE MAIL TO ME AT ROCHESTER SAMPLE OF THE COMMERCIAL ARTICLE TOGETHER WITH PROBABLE PRICE OF BOTH REFINED AND COMMERCIAL ALSO ESTIMATED OUTPUT AND EARLIEST DELIVERY DATE.

C W MARKUS

323 AM

.pril 21st. 1916.

Equitable Trust Company of New York, 37 Wall Street, How York City.

Gentlemen:

Your favor of the 15th instant was received and forwarded to Mr. Edison, who is in Plorida.

He directs us to write and may that we do not know when another paymentseen be made on account of commissions under the contract of Mr. Herbert Lewis with Mr. Edison. We have been unable to make any shipment recently on account of the embarge heid by the railway companies.

Yours very truly, Edison Laboratory. The Federal Graphite Mills, 120 Liberty Street, Hew York City.

Gentlemen:

Your favor of the 12th instant was received and for warded to Mr. Edison, who is in Florida,

He has returned it to me, asking me to write to you and get sample and price of the crushed iron which you manufacture as a by-product.

I would suggest a sample of three or four pounds, and would ask that you kindly address it to me personally at this address. There is such an immense amount of material coming here addressed to Thomas .. Edison that your sample might get side-tracked if addressed to him. Please quote in tons and curloud lots.

Yours very truly,

Ascistant to Mr. Edison.

THE SWEDISH CHAMBER OF COMMERCE OF THE U.S. PRODUCE EXCHANGE ANNEX

NEW YORK

JOHN LOKRANTZ

New York, April 21st 1916.

Please rufer to: A-135/16.

Orange, N.J . Centlemen:-

Mi leder that there was

g hear shalp of themany
a great shalp of themany
to fee the there profess
the wrote there profess
the wrote there profess

We are in receipt of your valued favour of the 19th inst. relative to sulphite of sodu. We shall be pleased to give this marter our best attention and shall insert your inquiry in the next issue of our Trade Journal. Resides this: we are going to communicate immediately with the following business concerns in Sweden, who are interested in the import

of this article: Ad. Faxe. Valmö.

Percy Lundwell. 5 Västra Hamngatan, Cothonburg.

A. B. Hedetröm & Co., Attention Er. Gunnar Brunn, Gothenburg.

Munkedals Aktiebolas, Funkedal.

Munksiö Aktiebolag, Jönköping.

Aktiebolaget Axel Christiernsson, Stockholm.

Strömenäs Bruks Aktievolag, Strömenäs Bruk.

We notice with pleasure that you are contemplating opening connections in Sweden, and our sim is to facilitate in every way the trude exchange between The United States and Sweden, we shall be only too pleased to give you all assistance in this matter. It therefore gives us special pleasure to extend to you herewith a formal invitation to become members of our chamber.

This institution was established 9 years ago, and the progress which it has mot with, especially during the last two years, is indeed

CONTINUATION

### THE SWEDISH CHAMBER OF COMMERCE OF NEW YORK

THE SWEDISH CHARRES OF COMMERCE OF THE UNITED STATES OF AMERICA

- 2 -

a testimony of the value of our services. The membership fee is only \$15:a year, and we hope that you will return at your earliest convenience the
annoxed sembership application properly filled out and signed.

We are sending you under separate cover a copy of our monthly bulletin, The Swedish-American Trade Journal, which you will as a member receive resularly.

Assuring you that we shall doon it a great pleasure to enter your name in our membership list, and always pleased to be of service, we are

Yours very truly

THE SWEDISH CHAMBER OF CHARGE OF THE U.S.A.

Ceneral Manager.

1 encl. / accural report.

....

SPECIALTIES, FERTILIZERS, OILS, GREASES,

THE STILLWELL LABORATORIES. A. G. STILLWELL, B. S.

ANALYTICAL & CONSULTING CHEMISTS.

761/4 PINE STREET

FACTORY CONTROL ECTION & ORGANIZATION INVESTIGATION NEW PROCESSES

April 21/16



Analysis No. 20357

NEW YORK

of a sample of

CERTIFICATE OF ANALYSIS CRYSTALLIZED SODIUM ACETATE

marked

received from T.J.Parker,4/20/16

Crystallized Sodium Acetate Anhydrous Sodium Acetate

99.15 % 59.76

Prop.

Carpolit

april 22nd. 1916.

William H. Scheel, Esq.,

169 Maiden Lane. New York City. Attention of G.H.Lincks, Esq.

Dear Sir:

Referring to our telephone conversation of the 15th instant, and to the prices can then quoted from your manufacture of Magnesian Chloride, I submitted the same to Mr. Edison. I have just received a memorandum from him this morning stating that the price ic entirely too high for his purpose, and he can use the Calcined Oxide, which will be much cheaper.

to may, therefore, be in the market or Calcined Oxide from time to time, and shall expect to call upon you occasionally for quotations.

Yours very truly,

Asistant to Mr. Edison.

Pear Sir:

School is wigh

Concerning our telephone converestion of today we beg to advise that we can supply you on short notice hagnesium Chloride substantially according to the follow-ang specifications. In carload lots-pure Magnesium Chloride containing not over 1 1/2, lime - \$120. per ton.

Magnesium Chloride containing not over % lime - \$110. per ton.

Magnesium Chloride containing not over 12% Lime - \$100. per:ton.

All F. O. B. Works. Preight rate would probably be not over 12 or 15 cents per hundred. In comparises with the German chloride all of the above grades contain less impurities, although the grades quoted at \$100. per ton may contain trifle more lime. If you are going to use it forflooring you need not be afraid to use the third grade on account of its lime contents. There are concerns uting it for the same purpose that contain a higher percentage of lime.

Yours very truly,

Mr. Edison: I received your mones, yesterday asking me to
get from bleed gurhation on American Magnessim Otherida with
low lime. I immediately belophened him. He called up his
manufacture is hew beyland on topplane a called limi to write,
School called me this morning and gave me the above letter
Apt. 18/16 from his Manufacturer.

Mecadowreefs

Noodward

Woodward alas april 22-16

Mrs Wm H. Meadoweroft Edison hoboratory

following one the grand totals

orphes up to data

Solvant Naftha.

147905/2 lb~

Shipped 136107 lbs napothaline for the

Kenry Ford Hespital | \( \rangle \) Detreit

April 22 1916

Mr. W. H. Meadowcroft, Thomas A. Edison. Orange, N. J.

My dear Mr. Meadowcroft:

We have recently experienced considerable difficulty in procuring carbolic acid at an enormous cost. Inasmuch as its use is absolutely indispensable in connection with disinfecting purposes and the seaking of our linens, we find that it will be impossible for us to centinue at this great expense, and the necessity, therefore, arises of in-stalling equipment which we feel will be too expensive to operate after the price of carbolic acid again becomes normal.

We understand that the Edison Chemical Works is now manufacturing carbolic acid and are writing to ask if it will be possible for us to procure the same from you. Our requirements run about 1 1 to 2 pounds per day.

Awaiting your reply with interest,

Very truly yours,

Secretary & Treasurer.

EGL-D

Telephone Call | 840 John

Varnish Gums,
Asphalts,
Shellac,
Driers,
Chemicals, and
Supplies for
Varnish Manufacturers

# WILLIAM H. SCHEEL, \[ \sum\_{\text{M}} \] (RCHANT,

/VERCHANI,

New York N. Y. ADTIL 34

New York, N. Y., MI

Mr. Thomas A. Edison,

Orange,

New Jersey.

Attention of

Mr. Wm. H. Meudoweroft

Dear Sir:-

Your estemmed favor of the 22nd inst., is an our possession today. We regret the unfavorable response with reference to Eugeseium Chloride. We understand now that you will utilize the Calcinned Greeciam Magnesite as per the recent deliveries made to your goodselves. We will probably have an additional offering to present to your attention tomorrow and we are also at work on a definite proposal with reference to the California product. This is said to take the place, in a very large measurs, of the Greeciam product at lower prices and of better shullty.

With reference to the deliveries recently made would say that we cannot enter an invoice for the reason that the numbers of the barrels are not yet in our possession. You understood of course that our invoices were to be rendered on a net cash ten day basis. In fact we paid cash against delivery order and naturally would like to have the matter settled as quickly as possible so that a remittance could come to us by early mail. Instruct your aniline Plant therefore to send to us the numbers WILLIAM H. SCHEEL,

NUMBER

424

4/24/16/

Mr. Thomas A. Edison,

on both shipments so that an invoice can be rendered. We particularly desire the numbers on the first shipment,

Yours truly,

GHL-GJK.

Million & Commenter

Latte Aldress "Edison Nac York"

Trom the Laboratory Thomas A. Edison,

Cambus

Crange N.J. April 25th. 1916.

Cumbria Steel Company. Johnstown, Pa.

Gentlemen:

get paidfor our work

Some tel change my absence in plorisa. It is a the control of the the control of the control of the cred change conversation tent thousand the cred change control of the cred change control of the cred change control of the cred change control of the cred change control of the cred change control of the c

in regard as plants That contact the condition existed in regard as plants That control with the toodward Iron Compeny, and later, when we found we could dispose of the Hephthaline, it was arranged that I should pay for it on the same basis as if it were Solvent/Hapthha, figuring 7.25 pounds par gollon, thus making the royalty 1 1/4 cents per pound for the Hephthaline 1 to the same part of the solvent of the thaline.

I understand that this arrangement is agreeable to the Cambrie Steel Company, and would, therefore, say that I am willing to sell my crude Hephtheline to the concern you mention at 2 1/2 cents per pound, cml I will pay the Combrie Steel Company s royally of 1 1/4 cents per pound.

Trusting this will be satisfactory, I remain

Yours very truly.

Mr. Edison:

Yes, this is what I did mean You see the Combina to want to lock at it on the basis of naphthaline belonging to them, as it was not mentioned in Contract, and I thought that marmich as we only have about a carload any way , we had better make a low piece so as to

colublish the right of property in us and howe no dispute. The question will drive in highest to the stricte, so I think we think we land beller make

April 26th. 1916.

Mr. H. F. Millor:

In regard to the chipment of Toluci under our contract with J. P. Morgen & Company for the British Government we have at last received word from the forwarding agenta, Lucham & Moore, that the connegivenia Reilread Commany will authorize their Johnstown agent to accept the last two whipment, number, lote Moc. 9 and 10. I have telegraphed Mr. Bucon, therefore, to make the ohipment.

I have two objects in view in sending you this memorandum / one is to notify you that he small now be able to make the shipment, whe the other is to call your attention to the fact that there is some dispute in regard to the commission of in. Horbert Lowie, and the matter is being taken up by our logal Department.

I, therefore, went to call your particular attention to this and to ask you not to pay Lowis' commission until you have the sametion of Fr. Edison and the Logal Department. Will you please advise me when you have received payment from J. 2. Morgan & Com. any. I will send you the bill of lading and chipping lists in due time after the shimment to made.

In order to avoid any resultility of any alip-up I am sending a curbon copy of this memorandum to Mr. Kollow and to Mr. Hass.

W. H. MEADOWCHOFT.

### EASTMAN KODAK COMPANY

ROCHESTER, N.Y.

Mr. William H. Meadowcroft. Laboratory of Thomas A. Edison.

Orange, N.J.

Dear Sir:

Podrie grand a from the Sound

April 26,1916. \,

We have concluded our experimental work on the two ounce sample of Commercial Paramidophenol which you sent us and although this chemical possesses no developing properties whatever, this condition influenced us in making a further analysis which leads to the discovery that the material is Paranitrophenol. Have you a price on this latter article? Yours truly,

EASTHAN KODAK COMPANY M. Edison: note purchasing Agent.

Now are in the purchasing Agent.

Now are in the purchasing Agent.

Leat they m. markers, called Markers for their could be marker to marker on place on several markers for acceptant to markers and the could be comed to markers on place on the could be comed to markers on the could be could be comed to the could be

Soe Nab

J. H. WOODWARD.

DANISTER, D.E.WILBON, TREASURE

HERDERT E.SHITH,

### WOODWARD IRON COMPANY

WOODWARD, ALA. April 26, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sire-

Com you got &

We are in receipt of years of the 21st in regard to making a contract with the American Oll & Buylry Company for a period of eighteen months covering their supply of mebhide maghinaless flakes, their requirements being from 10 to 20 tens per booth.

We note that they offer 10% a pount. As we understand it, this price is f. o. b. Newark. We are willing to accept the price of 10% a pound but hope you will be able to gay 10% to help take care of the freight.

We would also want some provision in the contract that would protect us in case we found it measure to shint down our bensol plant during the period covered by the contract. We take it as a matter of course that you will want to protect yourself in the same way.

Yours truly.

WOODWARD IRON COMPANY

Vice President.



D. P. BROWN,



ALL QUOTATIONS SUBJECT TO CONFIRMATION FROM THIS OFFICE WHEN ORDERS ARE RECEIVED.

MILLS AT BERLIN, N.H.

URSULPH, PORTLA

PORTLAND, ME. U.S.A.

William H. Meadowcroft, c/o Thomas A. Edison Laboratory, Orange, New Jersey.

My dear Mr. Meadowcroft:-

Your favor of April 18th in reference to sulphite of soda reached this office during my absence. In the meantime, however, my assistants communicated the contents of your letter to our Manufacturing Department and they advise us that while we have not used sulphite of soda in our process to any extent, we might be able to use it, if we could obtain it at a price that would compete with the sulphite of calclum which we now use in large quantities. We would appreciate it, tagrefore, if you would advise us at what price you could furnish this product in carload lots, and you can possibly estimate our probably consumption from the fact that we use about 60 tons a day of lime.

We shall all be very pleased to see you and your family back at the Cape this year, and you will be interested to know that a number of the neighbors have already moved over there, and we shall join the crowd about the

made of May. and we shall join the cred to get with kind regards, I remain years of the property from the contract of the cont

Juline

April 27th. 1916.

American Printing Company, Fall River, Mass.

Gentlemen:

Settled state of the market for any are of the unsettled state of the market for all kinds of raw materials, which has offered and protect of commerce. Like other meanter beginning of the work in more unusual experience ever eince the beginning of the work in Europe, and now find ayes! in the position of being compelled to decide very quickly whether or not | shall continue to manufacture aniline of next year. The great difficulty of obtaining soids and other raw materials makes it necessary for no to take action very whickly if I can to remain in the backness.

whether or not my present customers will desire to make now contracts with me for the year 1917. If you will kindly consider this matter and adviso me at your early convenience I scal be much obliged.

Yours very truly,

April 27th. 1916.

Dr. Fr. F. Zuendig, Wallisellen, Zurich, Switzerland.

Dear Sir:

Your favor of the eixth instant has been handed to Mr. Edison, and he has read the same with much interest.

He wiches me to say in reply that we are interested only in buying a process for making Peraphenylomediatine that is a chapper process than the usual one, in which Hirto-Acctanith is complayed. Glucial actic acid is very excensive at this time, and we want to avoid the necessity of muchy it for making Euraphenylomediamine. Hr. Edison whehes to know thether you can offer him a chapper process, and if so, at what wrice. He says that later on we may want to buy other processes.

At the present time we are manufacturing aniline Oil, aniline Salt, Paraghenylemediamine, Para Amido Phonol, and Phenol in large cuantities.

Yours very truly.

Assistant to Mr. Edison.

Calalie

April 28, 1916.

Eitsui & Com any, Limited, 25 kedison Avenue, New York City.

Attention of Mr. Takaki.

Gentlemen≢

You have robably noticed by the newsapers that we are having a strike at our Cerbolic . Flant at Silver Lake. It has lasted three days so far, and we do not know when it will be over, but here that it may not last much longer.

I no advising you about this, as it may affect the deliveries under your existing Carbollo contract. I thust, however, hat there will be no serious delay.

Yours very truly,

Thomas A. Edison, Esq., Dear Sir:

Mr. Plummer, our ex-President, spoke to me ago about our arrangement with you covering Benzol, and asked that I have the matter put in proper form. Since Mr.Plummer's resignation I have been extremely busy, and have only now had an opportunity of attending to this matter.

I have pleasure in enclosing herewith contract form in duplicate covering the arrangement Mr. Plummer made with you some time ago, and will be very pleased if you will sign the same and return to me here for completion.

I hope to have the pleasure of meeting you in the not very far distant future, and if time permits, will make it a point to go over to Orange some time when I am in New York.

Mr Edison

Yours very truly,

Here is the new embract at last.

Mark And

For your information I attack

President.

copy of the name, which you and no deminer initialed.

Meadowner

GOLDMAN, SACHS & CO.

80 WALL STREET

CABLE ADDRESS "COLDNESS"

8438)

onk, April 28, 1916.

Day apple they are very large Byers I. Thomas A. edison, of there is very entempressing we would not be about

Mr. Thomas A. Edison, of two them about 6000 worth sast orange, N. J. sell them about 6000 worth

Dear Sirs:

We take the liberty of addressing you within a piew invading an expression of your opinion as no financial formation of the following concern:

A. Hollender & Son - Wester, N. J.

So promptly - 9 believe three,

Any information that you care to impart to us willing be appreciated, and, needless to say will be held strictly confidential and without any responsibility on your part.

Thanking you in anticipation of your courtesy in

this respect, and assuring you of our pleasure in reciprocating at any time, we remain,

Cours very truly,

m' Edison

We Know nothing of their furancial standing but they buy about \$16000 worth of goods a month from ess & have always faid furnished. Meanwaste

1/16 Manceroei

1/2/16

Tolust

April 29th. 1916.

Mr. Edison:

You will probably remember that we have had on hand at Silver lake for a long time past some Tolkol which Mr. Kemmerhoff obtained in distilling some of the 90% Bonzol shipped to us from Johnstown many months ago. There were about 512 gallons, and you cald 4 might sell it.

It is not as pure as the regular Toluci made at Johnstown, and I sold it on sample at \$3.60 per gallon.

Now arises the question of billing. All Bonsol goes through the Incorporate. Therefore, this toluch has entered into their accounts, and in the first place will have to be billed by them. I contend that this Toluch ought to be billed, by Thomas A. Edison at the sale price, so that it becomes a credit to your Johnstown Plant agrount. Otherwise, you would not know what profit or loss your Johnstown account will show.

If you coincide with this view, the question to be settled is what price shall the incorporated charge Thomas A. Edison. I think they ought to charge you the same price as they charge the Carbolic Division for Bennol, plus an allowance for labor, steam, oto. used in the distillation by Xmmmerhoff.

MEADOWCROFT.

Para

..pril 29th..1916.

Eastman Kodak Company, Rochester, H. Y.

Attention of Mr. Markus.

Dear Mr. Markus:

the certainly made a stupid blunder in sending you Para Mitro Phenol instead of Para amide Fhenol. I asked one of our young men in the chemical room to get out the sample for me, and it was he who made the blunder by taking at out of the wrong package. The young man in question is simply one of the helpers, and not one of our chemists. I am rather ashamed that such a mietake should have been made.

However, I am sending you by this mail under separate cover a sample of here anide Phenol. This is the commercial material. For your purposes we should expect to furnish a refined product, and we are now working to get it in satisfactory chape. In the meantime, you can experiment with the sample that is being forwarded. Our photographer has had some good results with it.

Yours very truly,

Assistant to Mr. Edison.

### PARAPHENYLENEDIAMINE

ear month of invil. 1916

Parg 5 hijuri

|                   | Regular Shipmento 102   |
|-------------------|---|
| irst Week         | American Oil & Supply Company - 150 lbs. at \$2.85   100 " 3.50   100 " 3.50   100 " 3.75   100 |
|                   | from W. H. M 200 "  |
| second<br>seek.   | American Oil & Supply Company - 100 lbs. at \$2.85  |
| <u>Thirâ week</u> | American Cil & Supply Company 25 lbs. at \$3.75 iiollander - 300 " - 333 " - 333 " - 335 " -  |
| Fourth<br>week    | American Oil & Supply Company - 25 lbs. at \$3.75   |

### REPORT FOR HONTH OF APRIL

```
5.16 per day
                                                              155
             Sulphonations
             Salting
                                                              302
                                                                               10.2
                                                                              138.4
             Cans Contrifuged
                                                             4153
                                                            3903
                                                                              130.1
              Contrifune Loads
                                                          600364
                                                                              20,005 lbs
              Salt from Dryer
                                                                      _
                                                                                1,347 " = .067% Sodius
                                                           40435
              White Salt
                                                                                                           Salt
                                                                                 4.9 per day
                                                              147
              Fusions
                unions
(33 of 3600# - 114 of 4200#)
(Salt used in fusions checks with weight of salt from Dryer)
                                         255344 gals. × 8844 gal. per day
33264 " 1108.8 " " " = 12.53% of Phenolate
     Phenolate sent to CO<sub>2</sub>
Acidified Phenol Total
     Phonol Acidified by Hitro Coke
                                                             4000 gals.
                                                              512
     Phonol from Mitre Cake
                                                            33776
     Total gallons Phenol
                                                            33605
                                                                       .
     Phonol distilled
                                                           205849 lbs.
                                                                               =
                                                                                    6861 por day
      Lbs. Puro Phenol
Assume 155 sulphonations at a theoretical production of 4600/ Bensel Gulphonate Boda per sulphonation squate 713,000/ a Antual Production 000,104/ loss 5% = 570135 Dry Bonool Bulphonate Boda 40435 Unite Galt 10551 Total Dry Galt = 85.6% recovery of salt.
       Assume 3600 lbs. Dry Salt = 1550 lbs. Pure Phonol then 610591 " " " = 262880 " " "
                                              = 205849
       Actual Phenol
               Recovery of 81.8% of Theoretical
85.6% X 81.8% - 70% rec
                                                 70% recovery.
```

of con to him of the Mr Plummer of resident hum HE wants Talual 49 Thenk will pay 450 To declars - Ket me know

Edison General File Series 1916. Chemicals (E-16-16) May

May 1st. 1916.

Merrimack Mfg. Company, Lowell, Mass.

Gentlemen:

You are probably quite well-wave of the unsatuled state of the meter for all leines of yet meterials,
which has footed all lines of commerce. Like other mannfacturers, I have had a most unmand experience ever since
the beginning of the war in Europe, and now find myself in
the position of being compolled to decide very quickly
whether or not I thail continue to manufacture aniline oil
next year. The great difficulty of obtaining acids and
other raw materials makes it necessary for me to take action very quickly if I am to remain in the outless.

I can only decide the question by ascorteining whether or not my present customers will desire to make now contracts with me for the year 1917. If you will kindly consider this matter and advise me at your early convenience I shall be much obliged.

Yours very truly,

Cutter Address Withhow 10010. Undison Se MIASTER & CO Henred Milsui/N.Y (. Mitsui/Bussan Kaisha/Ltd.) 1001000 MOUKDEN TOKIO TIFLING SEGUL HAMBURG YOKOHAMA WAKAMATSU SABBOBO TIENTSIN CHEMULPO LYDN TAIDEN YOKOSUKA MADATSU CHEFOO ANTOHKEN PETROGRAD KORE. KUDE HANKOW KWANGHINTU DALLAS SAN FRANCISCO HISHIMA HONG KONG SWATOW DANDHOK SASERO MOUI MAITHGU AMOV FOOGHOW NEWCHWANG SOURABAIA MANUA MILEODAN KUCHINOTZU AWOMOR CHOSHUN PEKING SYDNEY SINGARORE MIYAKO NIIGATA PADIVOSTOR TSUDUCA 25. Madison Avenue . Now York May 1. Hooker Chemical Co Neagara Fills make Electrolylic Thos. A. Edison, Inc., Orange, N. J. rufo dorda 4 alcorina Dear Sirs: Attention of of I think can find an

Some time last summer I remember you told me that you can get the man to build a liquified oblorine gas plant in Russia, and now I have a cable from abroad asking me to that out at what price I can buy complete set of experimental plant for making oblorine, and also asking me to get gas generator with capacity of 2 ou. ft. per minute and dryers and compressors to charge same into bomb.

I shall be grateful to you if you will kindly give me your personal advise as to how I can obtain this experimental plant.

Very truly yours. Shunzo Jakaki

ST/KN.



## TREASURY DEPARTMENT 102664 OFFICE OF THE SECRETARY WASHINGTON

.....

May 1, 1916.

Mr. William H. Meadoweroft,
Assistant to Thomas - Edison,
Orange, N. J.

Sir:

I have to refer to your letter of the 12th ultimo requesting information relative to the duty on crude naphthaline and refined naphthaline from Canada.

In the opinion of the Department either Grude or refined amphthaline is free of duty under paragraph 458 of the tarriff act of 1913, which paragraph provides for the free entry of amphthalin.

Respectfully.

Acting Chief, Division of Customs.

No Enclosure.

### Kenry Fired Hospital Detroit

barolie

May 1 1916

Mr. W. H. Meadowcroft, Thomas A. Edison, Orange, N. J.

My dear Mr. Meadowcroft:

I have your latter of April 24th and beg to advise that we are trying out the sample of Carbolic Acid which you sent us. If it mosts with our requirements, will be very glad to place an order for 50 pounds at price quoted 77 pp per pound, and to continue ordering to meet our meeds.

Thanking you for your courtesy and, with personal regards,

Very truly yours,

HENRY FORD HOSPITAL

Secretary & Treasurer.

EGL-D

May 3rd. 1916.

Mr. J. E. Marriner, 5 The Burgess Sulphite Fibre Co., Portland, Me.

Dear Mr. Marriner:

main.

Your esteemed favor of the 16th ultimo was received, and I waited to show it to ir. Edison before making any reply. He wants me to thank you for the information which you have so kindly given, and to say that it would be of no use whatever to quote you a price on Sulphite of Soda, as we could not possibly compete with lime. The difference is too great.

The last few days of worm weather has given me "the Cape fever". It really looks now as if we would have some warm weather.

with kind regards to you and yours, I re-

Yours very truly,

Du phiente

ona

Zurich, May 3rd, 1916. 47 rue du Highi

Mr. Wm. H. Zeadoworoft,
Assistant to Mr. A. Setson,
Orango.

Dear "ir:-

. I duly received your favors of Earch 27th and April 1st and have taken due note of their contents.

As to the manufacture of prophenylendiseine I em in a position to offer you a very good process taken from my practical experience giving very good yields and its cost price being for below that the one obtained through the process with nitroscetabilide on account of the gladel accide acid being a very great drawback.

I am quite prepared to orde this process to you for the num of \$200.- ( twohundred dollars ). The equivalent of this amount, which is payable in advance, would have to be remitted to me cither directly by check on London or to the Société de Crédit Smisse, Zurich, for the oredit of my account.

Headless to may that I am always at your disposal for eny further information you may desire.

I remain, dear Bir,

Yours truly, por Dr. W. Knocht

References:

American Consulate General

Zurich.

Wilnesly

GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

Carbelie Please make separate reply to this inquiry.

Edison Aboratorie

Schenectady,, N. Y., May 3, 1916.

Dear Sirs:

Kindly quote us by return mail on the following material to be delivered AND AND F.A.S. Hew York, suitably packed for export -

7,220 lbs. white organiline phenol. Take the order was Wax spec les qualedies

Delivery required at destination: State earliest delivery. State what delivery you can make.

Quotations to be complete should include terms of payment -net and cash discount in 15 days.

Charges for packages will not be allowed unless mentioned in quotation and accepted by us,

Yours truly,

PURCHASING DEPARTMENT.

J. R. Bowman. BUYER.

JRB: SS

 $a_{t}$ 

PD-83-a 15m 3-6-16



#### Ceneral Electric Company, Schenectady, N.1.

### attention of ar. Bowman.

Dear Sir:

tenta, guote es de restrict mest co ses de seguines es con con ses de seguines 
Your request of the third instant for quotation on 7,280 pounds of white crystalline phonol was received, and I beg to quote you 88¢ per bound, F. a. S. New York City, suitably packed for export. This price includes the packages.

Deliver of this phenol could be made

within one week from receipt of order.

The above price would be not 30 days. Our cash discount is usually at 10 days from date of invoice, but we have herefore allowed your company to take the 1% each discount in 15 days. This also may apply in this case.

Yours very truly.

### EASTMAN KODAK COMPANY



ROCHESTER, N.Y.

May 4,1916.

Dear Mr. Meadowcroft:

We have completed our tests with the samples of Commercial Parunidophenol which we received from you last and while the article is somewhat crude, we believe that we can manipulate it so that it can be used. We would, therefore, be very much interested in knowing what quantities you would be prepared to offer; how soon delivery could be made and what the price would be. In case you contemplate supplying the purified product, you might let us know about that also

Yours truly, /

Mr. William H.Meadowcroft, Laboratory Thomas A. Edison, Orange, N.J. Calle Address Mitsui, N.Y

NIIGATA

TEUDUDA

MIMS:UH & CO HAMED

(. Mitsui Bussan Kaisha, Ltd.)

MILKE токіо WAKAMATSU YORGHAMA YOKOSUKA KARATSU KURE коре KISHIMA SASEBO NAGABARI MAIZURU NAGOYA

AWOMORE

BUNAGAWA

OTARU SAPPORO TAIPEH TAINAN HONG HONG NEWCHWANG CHOSHUN VLADIVOSTOR DALNY TIELING SECUL CHEFOO HANKOW SWATOW AMOY FOOCHOW TSINGTAU PEKING GIRIN

MOUKDEN CHEMULPO ANTOHKEN KWANGHINTU CALCUTTA

LONDON MAMBURG LYDN PETROGRAD DALLAS PORTLAND BOMBAY SINGAPORE

Richhone 10010. Undison So

25 Madison Avenue.

New York May 5, 19/6. There washlowne plant

in Operation at the Hinkoward alkali works Wyandally much Thomas A. Edison, Inc., might sell your this Orange, N. J.

Drawings or feverent a

Gentlemen:-

We have your letter of the 4th instant, regarding the liquefying chlorine gas plant, for which kindly accept

Armold Halfman VCo Mil our thanks. The Hooker Chemical Company, Niagara Falls, has already made arrangements to sell their patent to que competitors in Japan, and we shall be much obliged to you

if you know that Niagara Electro Bleaching Company is equipped the Golden de Schone to make liquefied chlorine gas. O Co also make

You kind reply will be highly appreciated.

Yours very truly,

Jaxar.

DEP. A. C. Emory.

Furchesting Bopt.

AND HAVE BRIDE AND STATE BRIDE STATE AND STATE BRIDE STATE AND STATE BRIDE B

Your mono seems to indicate that it is not quite clear to yet (90 cas to how much rear material to ought to receive per nonth, or what quantity of P. Phonol produced per day is to be considered as normal. To clear this matter up thoroughly, I think it messessary to briefly inform you chout the development and the present situation of this Division.

At the start of the last fiscal year, that is, in March, 1915, a production of 4,000 pounds of P. Phonol was considered as maximum, and contracts for the necessary raw material were closed by the Furchasing Department. When later Mr. Edison decided that our production ought to be increased, a standard of 7,000 pounds por day was adopted as normal maximum. This would be equal to 210,000 rounds of P. Phenol per month, or 30 days. From the accommensing blue print you will observe that so far we have only in one month, in November, 1915, reached a production of nearly 200,000 pounds, whilst during the following month this figure dropped to about 160,000 and 170,000 pounds. This variation was due entirely to lack of raw material, and it is this situation which induced me to ask repeatedly for a copy of our contracts for raw material concerning this Division. It is still not quite clear to me whether our contracts for raw material cover a production of 210,000 pounds of P. Phenol per month or not. Benzel, as well as Sulphuric Acid, is used not only in this Division, but to quite some extent in the Phenol Division of Thomas A. Edison also, and this is the reason that frequent exchanges have taken place, according to lar. Edison's and lar. Meadowcroft's directions. When, at certain times, we have been using so-called "Oleum" or fuming Sulphuric Acid, it has been delivered to us from Lr. Edison's Phonol plant in exchange for 98% Sulphuric Acid, and we still at this time have to deliver them 16.221 pounds of 98% Sulphuric Acid in exchange for Oleum proviously received by us. Whon, furthermore, we have used, and still are using to a certain degree, co-called "Chamber Acid", i.e., Sulphuric Acid of about 70%, the reason for it is again we have been supplied by ir. Edison's Phonol Division. As for as I know from Mr. Meadowcroft, no more Chamber Acid will be delivered after our present stock, enough for another 20 days, has been used up. Instead, so-called "Hitric Cake" will be used, according to Mr. Edison's instructions. This Mitric Cake has previously been used by Mr. Edison's Phenol Division, and we have at the present time sixteen carleads of uncrushed nitric cake in stock, to which during those days will be added twolve carloads more. We have taken, and are still taking this Nitrio Calce in stock because Mr. Edison's Phonol Division can not store it. The Mitric Cake is a substitute for Sulphuric Acid of 98%, or of so-called "Chamber Acid", and Mr. Edison wants us to use Nitric Cake as soon as possible, because it can be bought in any desired quantity, and comparatively cheap, whilst prices for Sulphuric Acid are coing higher all the time.

The V. O. Mora.

4-0-16-

inder these circumtenses, it is obvious why we are presently yet so hard for the directorst parts of mediancy valed you evidence imposity, and which, exceeding to your latest cavios, will be delivered in the norm tuture.

In order, now, to enable you to everyook the estimation puts elevely, I hereafter an giving you throe different lines, i.e.,

Pirmt, our domand for now motorated by uning 90,5 dailyhunto solid only, occord, our domand for now restorated by uning greatly 90,5 salphunto solid, and purity Garabow solid.

Tainto, our domand for new restorated by uning greatly 90,5 dailyhunto domand for new restorated by uning greatly 90,5 dailyhunto

Add, and partly by using so-added "literia dolo".

In all three lists the material delly production is supposed to be 7,000 pounds of P. Hamel, or 210,000 pounds per month, or 30 days.

First: By using 90, Sulpharic . old only. Cotor tol POP DOT For Conth Sonnol. 1,353 gales or 9,000 lbs. 40,572 plo. or 394,000 lbs. dulphuric heid, 90, 48,000 Ito. 1,260,000 200. 7.5,000 Limontono 24,500 5,250 " 2/4,000 " 157,500 Coda inn 400,000 Coxotic Codn

Motorda By uning partly 90 | culpianto Acid and partly Christor add. Cotorial For Dec For Jonah 1,352 gale. or 0,000 lbc. 40,572 min. or 395,000 lbn. Tonsen1 755,000 1bo. 24,500 lbs. Sulphurio Acid, 985 Chambor Acid 04,500 " 24,500 " 7:5,000 Limontono 735,000 Joda Joh 5,250 " 167,600 130,000 Countio Hode

Limotom 24,500 " 705,000 " 5060 Adh 5,000 " 157,500 " 157,500 " 423,000 " 423,000 " 157,000 " 15

retorial have nover been extincted in a theories of the contracts alocal for restricted have nover been extincted here to provide two a production of 7,000 pands of 2. Hered per day, or 20,000 pands per north. I reach this conclusion by taking him consideration that our stock of war stateful him on been growing to any excremebble extent. In spite of hering provised during the last five norther norther should be of 10,000 pands of 1, throat respectively. For stateful respectively, For stateful respectively, where stock of produced lineations over nine days only; for countin code, covern days, while it is in for each and 25 days. If the contracts alocated out all have called for

ir. /. C. impry. Aurahaalag Royt.

4-G-16.

emptorial equal to 20,000 pounds of P. Phonel monthly, our stook about home grown your much higher.

### CORDS PROBLEMS.

| Boncol         |          | - 210 | 000 mls. or | 152250 | 300  |
|----------------|----------|-------|-------------|--------|------|
| Julphuric Acid | a. 995 · |       |             | 700000 | 13   |
| Chember Acid . | -, -,-   |       |             | 550000 | **   |
| Limontono      |          |       |             | 735000 | 19   |
| Soda Anh       |          |       |             | 157500 | 19   |
| Countie Code . |          |       |             | 420000 | - 17 |
| Mitrio Calm .  |          |       |             | 675000 | 17   |
|                |          |       |             |        |      |

I would expressible it wary much is not would show no with man more information as one as you know awaring that I can count on largor summittee of reasonated country in-



Copies to Commers, Condermorat, Wilson, Insbort and Punk.

OFFICES: 45 Park Place NEW YORK MERCK @ CO.

bocholic

MANUFACTURING CHEMISTS

NEW YORK.

May 8th. 1916.

ST. LOUIS MONTREAL

Main Works G/WFC/ RAHWAY, N. J.

The Laboratory of Thos. A. Edison,

Orange,

Gentlemen:-

Kindly favor us with samples of your

Sodium Sulphite - Shale I seed both Keeks or only Sodium Acetate

which we desire to examine and hope to find suitable for analycement menonwer/ our use, in which case we will be pleased to pass some

orders your\_way.

Incidentally we wish to inquire if you have considered further the matter of manufacturing IRON BY HYDROGEN about 90%.

Yours very truly,

MERCK & CO.

Attested: M

7476

which comes from over using susphation wa do not come to use a Moridan as the would alter own present apparales or we could not pressure it as Cheaply as was do from sulphates you already have had a sample which you trained down on the Julphur capean host wife. The second period Some 3.000 Jan 175 tablet



Mr. Thomas A. Edson,

Orange, N.J.

Dear Sir:

Replying to your letter of May 6th quoting us on new contract for Aniline Oil for 1917, 45¢. We are not in a position at this time to cover our requirements for 1917, but we would very much like to contract with you for the balance of the year 1916.. that is, from June, when our present contract expires, for 45¢ per lb. Our use of Aniline Oil is very irregular, but possibly in a few months hence we may be able to determine regarding quantity for 1917.

Yours truly,

( Gradlig)

MEdison Stage we to it of contract is tot lead out of

VED TOG OTHING

DR. H. SCHWEITZER

box bilie

NEW YORK. May 8, 1916.

Mr. W. H. Meadowcroft,

Thomas A. Edison, Inc.,

Orange, N. J.

Dear Mr. Meadoworoft:

When I saw you on Saturday you expressed a desire to acquaint yourself fully with the indications of aspirin, and I am therefore sending you a pamphlet which will afford you complete information on the subject. I am also enclosing a copy for Mr. Edison, as I wish to tempt him to abandon his policy of not taking any medicine, and would appreciate it if you would hand it to him.

With kindest regards, believe me,

(8502)

Encl. 2 pamphlets on aspirin.

Woodward Coilered runs for 2 years paint but the principal Contintion I make is that in view of the first girl 9th, 1913 and my producent wir. Bilson:

The traffic officials of the desident Allvase with the data annual meeting at 500 Springs, Va., on the 15th inst., at whigh time they will take up the matter of advancing commodity rates and placing them on class rate basis. This means that the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity rate of the commodity with the forecast rate should be maintained. I understand that our contract with the foodbard Iron Company will not expire for two years more, if this is a fact, I recommond that we oppose any advance in rate on contemplated changes.

They alrowed not not stated with formy 191 the pure of bracht with formy 191 the pure of bracht with formy 191 \$ 568400 Sonny and formy 1915.

Lay 9, 1916.

#### Mr. Meadowcroft.

In line with our conversation this morning, will you please arrange to hand to me just as quickly as possible, all contractual obligations of every nature covering purchases of material for any of the Edison organizations, personal or corporate, as I have been instructed by Mr. Edison that I must at once assume responsibility for the purchase and delivery of all items of every nature for these various interests, with the sole exception of petty cash expenditures which may be made by anyone at his direction.

This morning I have invoices on my table from the Aniline plant covering screen borings, benzol and various other items. I find on searching our contract register that some of these contracts are in my hands and others are not, and in order that I may have an intelligent grasp of the situation I must have the official documents before me just as early as may be.

ACE.S.

Mr. Edison :

C lest a Naturally, I assume the about is

in accord with your wishuctions, and lague sent IN Empry copies of all the controlets we have ( See list attacher)

Of course, this will make quite a

change in the way of bounding our incoming materials. Mr. Emery does not wish any divided responsibility and says he will see to the deliver materials to the plants. Therefore I will 

Mr. Emery:

I received your memorandum #1600 of this date asking me to hand to you copies of contracts covering purchases of material for any of the organizations, porsonal or incorporated. In accordance with your request I am handing you copies of the following contracts, the originals being in possession of ir. H. F. Millor.

## ACIDS

merican oil & Supply Company, contract for Oloum for three years and ing December list, 1936.
merican Oil & Supply Company contract for Mixed acide ending December 31st, 1936.
Butterworth-Judeon Company contract for Mixed acid ending December 31st, 1936.
Butterworth-Judeon Company contract for Spont acid ending December 31st, 1936.
Output Company Contract for Spont acid ending December 31st, 1936.
Output Only of Spont acid Company Contract for Spont acid Company Contract for Spont acid Company Contract for Spont acid Company Contract for Spont acid (250 tons a month) for three years ending December 31st, 1936.

#### BENZOL

We obtain Jonsol From etx sources, memoly, Mr. Edison't Bentel Plints at (1) Johnstown, Pe. and (5) Loodwerf, Lie., oloo (5) from the Dominion Iron & theel Company, Sydney, Howa Scotie. The other three sources of cupply are (4) Elizauhee Coke and Gus Company, (6) Horshwestern Iron Company, and (6) Horshort Hydro Carbon Company, (7) Horshwestern Iron Company, and (6) Horshort Hydro Carbon Company, Ders S. 4, 6 hand 6. The contract for Johnstown covers the inextallation and operation of a Bensol Flunt, and is not a regular contract for the purchase of Bensol. The Johnstown contract is with the Company, and Ar. Edison agrees to may the cumbric Scelar Department of the State of the Company, and Ar. Edison may recover to make the Company Plant. Hr. Edison have a similar kind of contract with the Loodward Iron Company, but in this case the concern of Elizau Company, Limited is a partner. They soll the products, and Hr. Edison bought from them all pure Hensol produced by the Goodward Plant for the year 1916, at

#### CAUSTIC SODA.

Copy of contract with hing and Evans, dated butber 14, 1911, covering 2100 tons of Custic Sode in equal monthly dollveries beginning April 16, 1916 and ending april 16, 1917, 1938 for a nortific the contract there ought to be in your office two other Caustic Sode contracts with hing and Evans and Thomas A. Edleon, Inc., dato's respectively, however, which will be converted to the covering 1900 tone, April, 1916 to April, 1917 and the other covering 300 tons January to June, 1916, 195 for a court of June, 1964 June, 1964

## NITRE CAKE

Copy contract with Butterworth-Judson Company for Nitre Cake, December

Elst, 1911 to December 20th, 1916. Copy of contract with E. I. Du Pont de Homoure & Company for Hitre Cake, January 25th, 1916 to December Slot, 1916.

## CAST IRON BORINGS.

Copy contract with ... M. Wood & Company, Inc., for Cast Iron Borings, February 1st to August 1st, 1916.

## SODA ASH.

There are two existing contracts with the american Oil & Supply Compeny, one being for two cars a month for the year onding angust, 1916 and the other for one our a month for 10 months beginning March, 1916. I have never had these contracts, nor copies of them. They are in your office.

## COMMON FIRE SALT

Copy contract letter with C. G. Winan & Company, Howark for one curloud a month until further notice, this flotter being dated number 257d. 1916.

## CALCINED MAGNESITE

Copies of various letters covering an unfilled contract for one corload of Calcined Magnesite at \$50.00 per ton, ordered from the Silica Products Company, Chicago.

W. H. MEADOWCROFT.

Bush

Mr. Edison:

May 10, 1916. C.C.--Mr.Wilson. On July 12th, 1915,

I edvised you that I had been successful in having the Fennsylvania and Eric Radiroad Companies reduce the rate on bensole in tank cars from Johnstown Flant to Silver Lake, 3.1 cents per out or about \$21.00 per car. The effectiveness of this rate was prevented on account of complications that arcse which prevented the above Lines from making the rate effective. However, I pursued the matter to a conclusion, and I mm pleased to advise that effective May 15th the rate of 14.8 cents per out. will be made effective, the present rate being 17.9 cents per out. Would also advise that this rate will positively be effective on the above date.

J. R. BOTTON

May 10th. 1916.

Dr. Hugo Schweitzer, 117 Hudson Street, Hew York City.

My dear Dr. Schweitzer:

I hog to thank you for your favor of the eighth instant and for so kindly remembering my desire for some indications in repard to aspirin. I am much colleged for the pumphlets which you enclosed, and shall cortainly give one of them to Mr. Edison withyour compliments.

Lith kindest regards, I remain,

Yours very truly,

Fala

## EASTMAN KODAK COMPANY

ROCHESTER, N.Y.

(8665)

May 10,1916.

Dear Mr. Meadowcroft:

Has your work on the Paramidophenol matter gotten along far enough so that you would be in position to give us a reply to our letter of the 4th? We would like very much to have this information as it would have considerable bearing on the plans we are working on at the present time.

White Ri

Mr. William H. Meadowcroft, Laboratory Thomas A. Edison, Orange, N.J.

May 11th. 1916.

Mr. Edison:

In Edwin

said

Referring to the attached letter, this brings up the question upon which I want to consult you.

We have been making extensive use of the 250 pound galvanized iron cans. We have done this because iron or steel drums discolor the surface of the phenol lying next to the drum, and when this is re-melted and poured out, it makes the whole contents vellow. We use the galvanized iron cans of 250 pounds entirely for both Government orders.

The Heyden Chemical Company's Plant is not altogether unreasonable, but I think the trouble arises mostly from the handling of the cans. The cans are not over strong, and as they contain 250 pounds, it is not a very difficult matter to start a leak with the ordinary handling to get the cans on and off the trucks, and in the jolting of the cans given as the truck runs over more or less rough roads.

The Carbolic we used to receive from England was packed in tin or sheet iron cans encased in wood, which protected the metal.

If we are sometime or other called upon to make good on account of some bad leakages, it would not take long to run into a loss that would be more or less serious. It seems to me that for the present we could afford to put all our 250 pound cans in a cheap wooden barrel with straight sides, similar to the England packages. The can costs us \$1.20 and we have figures on wooden barrels at 40¢, making a total of \$160. The can holds 250 pounds, so this makes a total cost for the package .0064. Offine Does this meet your approval?

W. H. MEADOWCROFT.

## [ATTACHMENT/ENCLOSURE]

American Oil & Supply Co.

## Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark.N.J.

May 2nd, 1916.

Mr. W. H. Meadoweroft, o/o Thes. A. Edison, Inc., Orange, N. J.

Dear Sir:-

The following is a copy of letter received

yesterday from the Heyden Chemical Works:-

number of Carbella Acid onne reach us in a leaking condition. On some of the cano the seems are not tight, and in others there are helee. This condition is objectionable in warm weather especially considering the low melting point of Edison's product.

facturers will contend that the cans were tight when the Canbol chaid was poured into them, wholld he had bredly is true, but they would be handled more careful in transportation and storing or some kind of wretestion out around them.

protection put around them.

Perhaps you will desire to take

returns you will desire to take this matter up with Ur. Edison.
The Carbello Acid which we get from England is packed in wooden burrels as a pretection of the tins.

and August, the Carbolic Acid will probably arrive at our factory in a semi-liquid state, and considerable lest might occur if the containers are not tight."

M Edwar :

Will you please let us have your reply

Place see promptly in connection with the above in order that we

nicy nicero, may transmit it to our customer?

affached - Yours very truly,

Meadoward

American Oil & Supply Co.,

O. Jones

### CARBOLIC ACID DIVISION.

Silver Lake, H. J., Exy 11th, 1916.

Mr. A. C. Emory, Purchasing Bopt.

## RAW MATERIAL Your Memo #1469, dated April 29th,

Thesday, lay 9th, I run informed by it. Humbert that it. Midon had advised him that this Division would be also be preduced win that this Division would be able by preduce own more than 7,000 lbs. of P. Phonol por day it run anotal in mutilation quantities could be supplied. Consequently, in. Immort though it obvises that to provide a statement smiller to that contained in a latter addressed to you on they other results of the provided and the statement of the contained in a latter than the statement of the sta

Several months ago I stated to in. Edian that we could produce as made as 9,000 lbs. of P. Phenol per day. Emerciore, I beg to give you hereafter all the necessary figures for an output of:

(a) 8,000 lbs. of P. Phenol per day, or 240,000 lbs. per month, (b) 9,000 "n" "" "270,000 "" "".

following figures are divided into three groups, i.e.,
First: By using 90% Salphuric Acid only.
Second: By using partly 90% Salphuric Acid only artly Ohmbor Acid.
Siried By using partly 90% Salphuric Acid and partly Mitric Caba.

### First: By using 98% Sulphuric Acid only.

|                |     | 8000<br>per | lbs.<br>doy. | 240000 lbs.<br>por month | 9000 lbs.<br>per day | 270000 lbs.<br>per month |     |
|----------------|-----|-------------|--------------|--------------------------|----------------------|--------------------------|-----|
|                |     |             |              | of 30 days               |                      | of 30 days               |     |
| Bonzol .       |     | 1545        | cale.        | 46368 gals, or           | 1738 gals.           | 52164 gals.              |     |
| 20220          |     | 11200 px    |              | 336000 pounds            | or 12600 lbs.        | or 378000                |     |
|                | OI. | TTCOO IX    | Junio        | coooo Journe             | 02 20000 2000        | 1bs.                     |     |
| Sulphuric Acid | 98% | 48000       | lbs.         | 1440000 lbs.             | 54000 lbs.           | 1620000 lbd.             |     |
| Limentone      | /-  | 28000       | 11           | 840000 "                 | 31500 "              | 945000 " "               |     |
|                |     |             |              |                          | 6750 "               | 202500 "                 |     |
| Soda Ash       |     | 6000        | tt           | 180000 "                 |                      |                          |     |
| Constin Sodo   |     | 16000       |              | 480000 *                 | 18000 "              | 540000 **                | - 1 |

Mr. A. C. Emory, Purchasing Dopt. 5-11-16

Second: By using partly 98% Sulphuric Acid and partly Chamber Acid.

|                    | 9000 lbs.<br>por day | 240000 lbs.<br>per month<br>of 30 days | 9000 lbs.<br>por day | 270000 lbs.<br>per month<br>of 30 days |
|--------------------|----------------------|--|----------------------|--|
| Bensol             | 1545 gals.           | 46358 gals. or                         | 1738 gals.           | 52164 gals.                            |
| or                 |                      | 336000 lbs.                            | or 12600 lbs.        | or 378000 lbp.                         |
| Sulphuric Acid 98% | 28000 lbs.           | 840000 "                               | 31500 "              | 945000 "                               |
| Chamber Acid       | 28000 "              | 840000 "                               | 31500 "              | 945000 "                               |
| Limestone          | 28000 "              | 840000 "                               | 31500 "              | 945000 **                              |
| Soda Ash           | 6000 "               | 180000 "                               | 6750 "               | 202500 **                              |
| Caustic Soda       | 16000 "              | 480000 "                               | 18000 "              | 540000 "                               |

Third: By using partly 98% Sulphuric Acid and partly Hitric Calm.

|                    | per        | per month<br>of 30 days | por<br>day    | per month<br>of 30 days |
|--------------------|------------|-------------------------|---------------|-------------------------|
|                    |            |                         |               |                         |
| Benzol             | 1545 gnls. | . 46368 gals. or        | 1738 gals.    | 52164 gals, or          |
|                    | 11200 1bs. | 336000 lbs.             | or 12600 lbs. | 378000 lbs.             |
| Sulphuric Acid 98% | 28000 "    | 840000 "                | 31500 "       | 945000 **               |
| Nitric Calce       | 57000 "    | 1710000 "               | 64000 "       | 1920000 "               |
| Limestone          | 28000 "    | 840000 "                | 31500 "       | 945000 "                |
| Soda Ash           | 6000 "     | 180000 "                | 6750 "        | 202500 "                |
| Coustic Sods       | 16000 "    | 480000 "                | 18000 "       | 540000 "                |
|                    |            |                         |               |                         |

If any further explanation is wanted I will be glad to furnish

it.

и, казанирур,

Copies to Mossrs. W. H. Meadoweroft, C. H. Wilcon, S. B. Mambert (2).

Meadocraft This wrong Mr. Edison:-

We have gone over the form the Dominion Company and have made only such changes in it as the later than seem necessary to protect your interests. Clean copies of the redraft are submitted herewith, to to par fith the form submitted by the Dominion Company, the latter having the manges made indicated in red ink.

The paragraph in the middle of page 2 of the Dominion Company's draft relating to the penalty has been eliminated, as it does not appear to be favorable to you.

The provision that the contract may be extended for a further term of six months in the event that you are unable to furnish sufficient tank cars appears to be entirely at the option of the Seller, and you would not be entitled to call on the Seller for this extension as a matter of right.

Hong Buse over the wife of the state of the

HL-JS

Relum WHILL Caller Address Hickory 10010. Martison Je MINISUI & CO Inguardo Milsui, N.Y. (Mitsui Bussan Kaisha/Lit.) OTARU DALNY TOKIO YOKOHAMA WAKAMATSU SAPPORO TIELING MAMBURG TAIREH CHEMULPO ANTOHKEN YOKOSUKA KARATSU TIENTSIN LYON HODE KUDE CHEFOO KURE KISHIMA SASEBO OSAKA NAGASAKI HANKOW DALLAS SAN FRANCISCO CANTON KWANCHINT HONG HOND HANGOON A MOJI MAIZIIGH SHANGHAL AMOV PORTLAND MUROPAN NEWCHWANG FOOCHOU AWOMORI CHOSHUN TRINGTAU BOMDAY SINGAPORE TRUBUGA BUNAGA Thomas A. Edison, Inc., Orange, N. J. Attention of Mr. W.H. Meadoweroft. Gentlemen:-Regarding the shipment of Phenol from Silver Lake, we have a complaint from our people in Japan to the effect that some of the material is found insoluble in water and some are found not quite transparent when dissolved in water.

Yours very truly,

Kindly let us know what we can say to

My Heart Same Janas.

Distance by Rr. Nomura.

them.

# CAMBRIA STEEL COMPANY

OFFICE OF THE VICE PRESIDENT & GENERAL MANAGER

EDWIN E. SLICK

JOHNSTOWN PA. Hay 15, 1916.

Mr. Thomas A. Edison,

Orange, E. J.

Dear Sir:

Replying to your letter of April 27th, we will accept your offer of 1% cents per pound Royalty for Crude Haphthaline.

Yours truly,

Vice President & General Manager

Potroneries !.

## DEPARTMENT OF COMMERCE

BUREAU OF FOREIGN AND DOMESTIC COMMERCE WASHINGTON

May 16, 1916

I can only give you my own efforts I have exceed & Thengot absorbing I near errected 3 Eduquican in offer 2 for may Consonic cred 1 for may during declarities, prompter

Mr. Thomas A. Edison, Orunge, New Jersey.

My dear Sir:

There has been much said of late with reference to the establish-that and the confidence on the confidence with the confidence of new industries in the United States as a result of the European war. No doubt many such industries have come into existence and many others have been considerably enlarged. I am trying to obtain accurate and definite facts on this subject. Such information can not be obtained

through the compercial and trade organizations and I am taking the liberty of addressing you.

I hope you will be able to supply some facts on the following questions which are submitted merely as a guide for your reply:

- (1) What industries have come into existence since the outbreak of the European war, either because importations of products which were formerly manufactured in Europe have coused, or because other rations have recently been unable to supply themselves with certain products as in normal times?
- (2) What industries have been considerably enlarged owing to the easo causes?
- (3) What articles or products formerly manufactured chiefly in Europe are now being manufactured in this country on a greatly increased scale?
- (4) What American-made products are being used as substitutes for products which were of foreign origin and imported into this country?

I would particularly like to obtain as complete information as possible, including names of manufacturors, plans, size of plants, number of employees, value of products, prices and costs, as compared with the foreign--made article or products. If all these details are not available I shall be indobted to you if you will send what you have. If you wish any of the information hold confidential, so mark it and I shall respect your wishes in the matter.

I am not as much interested in matters directly concerned with mumitions of war as I am in products which are used in normal times.

Should you have little or no information at hand, I would be greatly indebted to you if you would refer this letter to some one who might have such information or drop me a line with the name and address.

Thanking you in advance for any material or suggestions, I am,

Chief of Bureau

Very truly yours,

eep-g

# E-R-SQUIBB & SONS, NEWYORK

Carpolis

THEODORE WEICKER, PH.G., PH.C., VICE PRESIDENT

May 16, 1916.

Mr. William H. Meadoworoft, Assistant to Thomas A. Edison, Orange, H. J.

Dear Hr. Mesdowcroft:

I weknowledge receipt in due time of your favor of the 8th instant, and thank you for same. That part of your letter regarding the accounting matter will be taken up by our Controller.

As to the carbolic soid delivery, I am sorry to say that in the first place the quality of the soid has given us a great deal of trouble, and we have had complaints from all over the country. On the other hand, the market seems to have weakened so that we find that even at 30¢ we can not sell. Yesterday we Maddright and offer because the customer said he could hay at 796.

If you can suggest any improvements in these two directions, quality and price, we hope to hear from you. You can always depend upon our most earnest cooperation.

TW:S

Very Haly yours.

# American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street Newark, N.J.

Thos. A. Edison, Inc., Orange, N. J. Mr. W. H. Meadowcroft.

Gentlemen:-

We enclose herewith letter from Hadjopoulos & Sperco, which is self-explanatory. Will you please take this up-with Mr. Hoffmann when he calls in the morning, and advise He as soon as possible what we should do in the matter

Yours very truly, American Oil & Supply Co.,

AEJ/DEM (ENC.) Affor.

## [ATTACHMENT/ENCLOSURE]

D.B. HADJOPOULOS, PRESIDENT

CONSTANT J. SPERCO, TREASURER.

# HADJOPOULOS & SPERCO, INC.

IMPORT AND EXPORT

GENERAL COMMISSION AGENTS

CABLE ADDRESS
"HADJOPULOS," NEW YORK
TELEPHONE
RECTOR 1832

29 Broadway NewYork

CODES USED
"WIEGER'S BLITZ CODE, 1908 ED.
A.B.C. STY EDITION
LIEBER'S, J.K.ARMSBY CO'S.

Lag 14, 5918.

20c51-cm

Studies of ir. C. E. Benett

Re: Constact FG18, S6,000 about English without all as two communications.

The log be informant with a resolver a time from the house in the Principles therein the state field the Cur fittil 16.2 h ... with 2000 from Londonevil, ill. arrived in the Cur fittil 16.2 h ... with a 16.5 full halfer-body, on this Distriction in policy and has a very large resolvent Curisting. The still before the proceeding of Loristone, the still before the monthly for the still be a low to all before the monthly for the still be still be the current.

In the T.E. E. A. store assessed in a cold of position of the state of

um m<u>elboli immilianie, "</u>

awaiding year investate divises in the nation, a reads

عند أرسوس

Muaso

May 18th. 1916.

Mr. C. W. Markus, purchasing Agent, Fictman Kodak Company, Rochester, H. Y.

Dear Mr. Markus:

I trust you will not think that I am negligent because I have not unawered your favor of the loth instant/ Hr. Edison has been busy on his old ctunt of working about twenty hours a day, and it has been a very difficult matter to get his attention. He is just finishing up a special line of inventigation and is going to take up the matter of Para Amido Phenol, together with some other matters that will interest you, with a very few days.

I am hoping to have some interesting news for you within a short time.

Yours very truly,

Assistant to Mr. Edison.

ES OFFICES

Chemical TH MANCHESTER COMMECTICUE

## Changes here Henropy thingness MANUFACTURES

SOUTHER MANUSCRESSION CHARACTER DESCRIPTION

May 18, 1916. Ing Ynow mfr Andin - Acade whole, Andre Salt

Carbolic cicio, netro acelandide,

Mr. Thomas A. Edison, Panaphensplenedur nend, only in Orange, N. J. Dear Sir:

transpt to heap our the fundager working I should produce the case.
At a luncheon given by Mr. Austin C. Dunham yester-

day the writer and Mr. Dunham were talking over the domestic manufacture of Intermediates and finished dyes. Mr. Dunham suggested that I write you and explain just what we wanted, I told Mr. Dunham that I would be very glad to avail myaelf Lynickma of the opportunity.

On October 15, 1915, we wrote the Thomas Laboratories in regard to Toluol Intermediates. My idea is to try and manufacture at our own plant certain high-class dves, which are not liable to be made in the United States for some time. We would go at the problem on a small scale and the dyes would be for our own use only. We need certain Intermediates and do not care to start from Benzol, Toluol or Aniline Oil. We wish products further advanced than the above, such as the following intermediates:

Para-Amido-Dimethylaniline Alpha Napthol Benzaldehyde Diethylaniline

Michlers Ketone

Glycome

Beging unone

Beging admicks phonol

Lucy do so of I can get the apparatus

queck enough, I there core ansaporthemments

done up the list your want I could

pre darly help out. MEIF

We have made some inquiries in regard to obtaining Phosgene but are unable to find any source of supply. We understand this gas is the one that is used by the Germans in their trench warfare. Possibly your Company may be manufacturing some of the Intermediates and we would be pleased to hear from you on the subject, as well as any suggestions you wish to give.

Very truly yours,

Chency Brothers,
Per Johnst. Chang

JPC HB

May 20th. 1916.

Chency Brothers, South Manchester, Conn.

Attention of Mr. John C. Cheney.

Dear Sir:

I have received your favor of the 18th instant, which has been reed with much interest. Let me say that I am now manufacturing the following: Antiline 311, Antiline 381, Acetamilid, Hitro Acetamilid, Persphenylemediamino, and Carbolic Acid. I went into these things only to help out the textile inductries, fur dyers, and others, and shall probably shut down those special factories after the car is over. Just now the photograph people are urging me to help them out by making Retol, Glycin; Hydroquinone and Furu Amido Thomol. I may do so if I can get the appuratus quickly enough.

If there are in my list any chemicals you want I could probably help you out.

Yours very truly,

Meadowalt

Note Bbl left over from Son Fran Shepunt watell what to the or show the track of frain Was

Naphthaline

Door No Moson Maphtholm at a distance
On Able 10th the car was
Thisped to bear transfer or maphtholm points
to follows (Regarding car northholm phipped
to bour transfer or morthalm phipped
to bour transfer of mencan sie wants appendictions
as to County, Melling point and Boulary points When
Door the word County point and Boulary points When
Commean ail road the naphtholme ar
Countried Naphtholmy and when it gets to Japan
we will get a rich The kiels come quicker
and Cardythan Daypoeted) We madel a

we had no clean cent operification for naphhalaw. As for the naphhalane being yellow on

text for Boiling and Westing points and sent them to New Meadowardt, and botold New Meadowardt

V

avoiced at bans transisco. I know it was white when it left trove, and from one appearance it was just like the naphtholener shipped to newall and hulfother Hor a inspected over 1/2 of the barrelo loaded I was inspecting the condition of the bowels, I had the trade taken out of at least is bounds and funt back in or put new Reads in for a wanted all bowels to leave in AI condition a believe these must have been 20 barrels opened all to gettler. Every barrel s Row opened, the Maphilalene was white. Use for the large percentage of moisture. There was no more moisture in this nofth dere then in other naphtholene oupped from here and the large percentage of moisture must have got in after leaving here. There has not been over five shonger of the paw that I did not see before it was borneled or while it was beening borneled, all of the off color and damp not thelene is fut back

in the pan, the naphtholine along the sides of the building as alway more or less damp this is alway put back in the fam. I can not undustand why was now phood go bad with the other noon been good. I do not think there is any difficult in the oude nophtholena. Do you Mund the climatic conditions has any thing to do with Turning the mappethalene yellow? You remember a told you about MurE Melyger of the Witnaled Chemical Go of Kingaton been here Looking over loodward naphtaline a showed tum Tow white the bublemed naphlholeve was, her said it rolled had some oil in it that could not be gotten out by oublining. I think the had a reason for paying that for her wanted to buy it cheater The can phipped april 2 2 and May 17" was all from gas cooler nophthalans, the april 2912 much be in hunforte by this time. If you have time a wish you would

go and look at it your pell a am ourse yourill that the make states sow in vol stand and book to being hore. I have another ear lood on Rand a will Rample every 10th barrel and send sample to you. I feel sich about the car of maphibalens being rejected for a Rave tried hard to sup all good material for wealthave enough trouble without linker. he are still wound reservoir water, have pump and engine in but they have not got it working yet. another thought just came to me, about the nathehaless 10 showed Mr Melager. I took a bound from a pule of barrels in the brick of Red and opened it and that barrel was from a pile that wend to Dan Francisco, and the nophthalene was white in the barrel . This was Mar 28 your whole

ducline

May 25th.1916.

The Board of Health, Bloomfield, N. J.

Gentlemen:

I write to advise you that we have now turned into the sewer all the waste on refuse from my Aniline and Carbolic Plants at Silver Lake; also that I hope to absorb any escaping gases by means of absorbing tower, which I expect will be in operation next week,

Yours very truly,

Para a.P.

Zurich, le 25 Mai 1916. 47 rue du Righi

Monsieur Wm. H. Meadowcroft,

Orange.

Monsieur,

Par votre lettre du 25 avril vous me demandes une autre formule pour la préparation du paramidophenol que celle par la réduction du paramitrophenol avec du fer et de l'acide chlorhydrique pratiqué jusqu'à présent.

Je me fais un plaisir de vous adresser ci-joint des données sur la méthode électrolitique pratiquée à ce que je sais sur une grande échelle et donnant de bons résultats.

Ayant comme point de départ le nitrobenzol d'un côté et yant l'electricité à bon marché je ne doute pas que vous en sourez tirer partie.

Veuillez agréer, Monsieur, mes salutations empressées.

l annexe.

Jen D'W. Sheely

1.

## Elektrolytische Darstellung von Paraemidophenol aus Mitrobenzol.

## Ausführung der Versuche.

Zur Reduction wurden zunächst die Nitrokörper event, unter Erwärmen je nach den Umständen in der 5-10 fachen Gewichtsmenge reiner conc. Schwefelsäure gelöst. Die erkaltete Lösung wurde in eine poröse Thonzelle, welche einen Durchmesser von 4-5 cm. und eine Höhr von 8-9 cm. besass, eingefüllt, diese in eine circa 2 cm. weiteres Becherglas gestellt und der Raum zwischen beiden mit 75-100 % Schwefelsäure angefüllt. In die innere Zelle tauchte die Kathode ein, welche aus einem Platinblech 3 : 4} cm bestand, während die Anode, die von der gleichen Grösse war, sich in der ausseren Flüssigkeitsschicht befand. Der Strommi welcher einer Accumulatorenbatterie entnommen wurde, besass eine Spannung von 5-6 Volt und war zur Elektrolyse im Durchschnitt eine Stromstärke von 12-3 Ampère erforderlich. Die Dauer eines Versuches betrug je jach den Umständen 12-24 Stunden. Bei der Reaction tritt in den meisten Fällen eine lebhafte Erwärmung der Schwefelsäure, in einzelnen Fällen bis auf 80° Cels. ein, sodass ich bei meinen ersten Versuchen für Abkühlung der Zelle Sorge trug; in der letzten Zeit habe ich nicht mehr unter Kühlung gearbeitet und verlaufen die Progesse unter diesen Umständen z. Th. schneller.

## [ATTACHMENT/ENCLOSURE (WITH TRANSLATION)]

Parasmidophenol 2.

Was die Gewinnung des Reaktionsproduktes anlangt, so scheidet sich dasselbe in den meisten Füllen in Form eines schwefelsauren Salzes direct aus der Schwefelsaure ab und kamm man dasselbe durch Filtriren über Aspest und Abpressen auf Ton leicht isoliren.

## 

## Darstellung von Parasmidophenol.

Zur Elektrolyse wurde eine Lösung von 20 grm. Nitrobenzol in 150 grm. Schwefelsäure verwandt.

Bereits nach kurser Zeit färbt sich die Flüssigkeit unter immer zunehmender Erwärmung blaugrün und nach 5-10
Stunden ist der Zelleninhalt zu einem dichten Krystallbrei von
weissen Blattohen erstarrt, welche über Aspest abgesaugt und auf
Ton getrocknet werden. Die Ausbeute an Rohprodukt bellef sich auf
20-25 grm. Zur Reinigung kann man die Krystalle auf Wasser oder
zweckmässiger aus verdünntem Alkohol umkrystallisiren. Der Körper erwies sich in allen Eigenschaften als sohwefolsaures paraAmidophenol; durch doppelkohlensaures Natron konnte daraus die
freie Base abgeschieden werden, welche, wie angegeben, einen
Schmelspunkt von 186° Cels. besase.

9888888888888888888888

## [ATTACHMENT/ENCLOSURE (TRANSLATION)]

# ELECTROLYTICAL PREPARATION OF PARA ALTDO PHENOL FROM HITROBERZOL

## LETHOD OF PROCEDURE.

For reduction, the nitrated substance is discolved in 5 - 10 times to weight of pure concentrated Sulphurie Loid, with the sid of heat, if necessary, according to circumstances.

The cooled colution to poured into a porono cup heving a diameter of 4 5 centimeters and a height of from 5 - 9 centimeters. The persons cup to them Placed in a bouter having a diameter of about 2 centimeters more than the cup, and the space between is fille with 75 - 100% culphuric heid.

In the inner cell is placed the cathode of platinum 3 centimers by 1/2 centimeters, while the eneds which was of the same size is placed in the outer cell.

The current is taken from a storage battery, the voltage being - 6 volta end a current domaity throughout the electrolysis of 12 to 3 amperes being necessary. The time of electrolysis takes, according to circumstances, 12 to 24 hours.

In the course or electrolymis there is coursed repla heating of the full hurte acid. In some individual cause as high as 80° contigrade. In my direct the course of the co

## PREPARATION OF TAKA AMIDO PHENOL.

For Electrolysis there was taken a solution of 20 grammes of Nitro-Bonzol in 160 grammes of Eclaphuric Loid.

The fluid gradually becoming warmer efter a chort time is colored bluich groom, and after 5 - 10 hours it has thickened to a crystalline mass of white crystall, which are filtered on an assesses filter and dried on persua plates.

The yield of crude product in 20 - 28 grammes. To purify this crude product can be crystallized from water but better from elected. This product reproduct to all tests of para Anida Phonol sulphato. Heattrailizing with need the product reproduct to all tests of para Anida Phonol sulphato. Heattrailizing with need must be better on the free base can be obtained, which has a matting point of 1860 centigrado.

## [ATTACHMENT/ENCLOSURE (TRANSLATION)]

## PARA AMIDO PHENOL

Production of Para Amido Phenol by the electrolytical reduction of Mitrobensol according to R. Darnstadter D.R.P. 154086 is hereby shown that an electrolyte is used consisting of Sulphuric Acid so diluted that Mitrobensol is not dissolved but suspended therein. In the cathode chamber of the electrolytic cell there is placed 1000 cc. 50% Sulphuric Acid and 250 grams Mitrobensol while the anode compartment is filled with, at the most 40% Sulphuric Acid, which is diluted during the electrolysis as it has a tendency to concentrate. Carbon is used as a cathode. Lead plates is used as anode.

With rapid etirring a current of 6 amperes is passed until 200 ampere hours have been used up. At this stage 200 grams of the Nitrobenzol have been converted while 50 grams remains unaltered.

The solution from the cathode compartment is allowed to cool, the unaltered Mitrobensol separated from the rest of the contents by scooping off from the top. The separated crystelline Para Amido Phenol sulphate is filtered off and the strength of the filtrate brought up to 50% with Sulphuric Acid ready for another electrolysis.

This method is applicable for the reduction of other nitro hydrocarbons and some of the nitro bodies of the aromatic series. Example, Para Amido Cresol can be obtained from Ortho nitro toluol., etc.

Jan (v)

## PENNSYLVANIA TANK LINE

OFFICES
THIRD HATL BANK BLDG.ST.LOUIS.NO
DUPONT BLDG.WILMINGTON.DEL.

REPORTING MARKS "P.T.X."

GENERAL OFFICES: SHARON,PA.

Sharon,Pa.

May 25, 1916.

Thomas A. Edison. Orange, New Jersey. Mas Gran

Gentlemen:

We are in receipt of your letter or may 24th making inquiry conders ing leasing of two additional cars for the transportation of Benzel.

At the present time we do not have evaliable any 10,000 gailon cars; but would have out of this agently during the month of 11/19, if cars are not required to the time of the

We equip cars with steam coils and have a number of such cars in a coil service at the present time, but understand that steam coils are only required in Bennol cars during the winter moths. If you are in immediate need of cars we can forward two cars at once without steam coils astituting cars equipped with steam coils later in the manner, if this would be satisfactory to you. We note your cars are estraing about 10.000, each, per month milesge. This greatly reduces the amount of rental.

Thanking you for your inquiry and trusting that we might be favored with your order which will be given immediate attention, we remain

Yours very truly,

елм/м

Janagor.

M Edward we light too Hyper Carbon to g Hairle Have land newfort house at land of the measurement?

May 26th. 1916.

Mr. Luther Kountze, 141 Broadway, New York City.

My dear Mr. Kountze:

I enclose herewith a letter from the H. Koppers Company, Pitteburgh, Pe., under date of the 24th instant, in which they sek for date in regard to the barrel of coal which was sent to them a little over a year sgo. This was the sample barrel you sent up to me from your coal deposit, and on which they were to make report as to the possibilities of utilizing the same through a by-product plant.

If you care to have the data furnished to them, I shall be glad to forward their data sheet, or you can communicate with the Koppers Company direct, if you desire.

Yours very truly.



The Entwiler

Birmingham, Ata.

May 26-16

bear m Edway! we wen all rady
to put gas in system and start
absorbing yesterday but the
long lemms of gas proper which
the wood want people are furnishing
did not come right and they
had to put up some spread countin
had to put up some spread countin
Which has drayed them— what
Do you though of that— two mon the
to get about 300 ft 30" gas pipe!
we have been running and through
we have been running and through



# The Tutwiler Sirmingham, Ala.

water is what womes me more
than any thing Else- Thing had
a li main from the mines and
Said they could found any pursue
from mine purs ps. when we
began to last it out you today
to day we find that as form
to day we find that as form
to day we find that as form
to come to get wough pursuen
to come to top of fear coolerand we only get about had to what
we need - after putting it
up to them they are now putting
in a broster pursue p. believe



## The Tutwiler

Birmingham, Ala.

this will mark it about right exaft Temperature. They bold me how water ran 660600 all year mond - or letting water will be how being gitting that to me 72' - below this will be better when we get in boos his away get double greatity. I am get thought from planty of water to be betained by bulling of permpung, I way that tota up water gues him with Baniste when he returns when he returns

#### CARBOLIS ACID DIVISION.

Silver Lake, N. J., May 26th, 1916.

Mr. W. H. Meadoweroft.

Subject: MITSUI & COMPANY

In the letter from Mitmi & Co. dated May 15th, there is nothing said about a special shipmat or a special firm, the contents of which did not, according to their menning, come up to the normal standard. The letter from Mitmi & Company speaking about our Phenol in a general way only, I have to explain in the same general way how are proceeding:

The Phenol for Mitsui & Co. is manufactured in the same way as all our other shipments, which undergo, as for instance those to the U. S. Mavy, a very close test by an official of the U. S. Navy.

In regard to solubility, the specification of the U. S. Navy is as follows: "Place one gram of Phemol in a beaker with 20 C.O. of water, and heat to 80 to 100 degrees Pahr. with constant stirring. The Phemol should be completely soluble.

In recard to crystallizing point, the specification of the U. S. Mary demands that the Phonol ought to solidify above 38 degrees Centigrade.

When Mitsui & Company's letter arrived we had just started to propare a new chipment for them, and have now taken an extra sample of each batch, as mentioned hereafter:

| Still No. | Batch No. | Drum No.   | Solidifying Point |
|-----------|-----------|------------|-------------------|
| 5         | 348       | 481        | 39 .4             |
| 5         | 350       | 482        | 40.6              |
| 5         | 357       | 483        | 40.2              |
| 5         | 358       | 484        | 40.6              |
| 5         | 361       | 485        | 40.4              |
| 5         | 365       | 486        | 40.6              |
| 5         | 369       | 487        | 40.2              |
| 1 and 7   | 110       | 488 to 493 | 40.5.             |

We have tested to-day the solubility of all of these samples, and find them answering the specifications of the U. S. Navy.

in order to be positively mure that our shipments to Mitmil 6 Co. in the future one up to their standard, I would suggest that in a similar way. Has it is done by the U.S. Havy, a test by a representative from Mitmil sight be made in our laboratory at Silver Labs, one that shipments be made only after we have Mitmil 6 Company's written agreement that the Phmol is C.4. I keep the above mentioned samples ready, either to have them tested here in Silver Labs by Mitmil 6 Co., or to send them to segme except if they want us to do so.

M. KAMMERIONE.

CAMBRIA STEEL COMPANY

JOHNSTOWN PA. Bay 27, 1916

Er. Thomas A. Edison,

Orange. E. J.,

Door Sir:

We have been notified by the Fennsylvania State Bureau of Health to discontinue wasting of amterials from By-Products Plants into the river.

i understand there is considerable, oil, acid and objectionable waste from your Benzol plant going into the river, which will have to be stopped. I will be pleased to have you issue necessary instructions to have the practice completely eliminated.

Yours truly,

June 2nd. 1916.

Mr. Edwin E. Slick, Vice President, Cambria Steel Commany, Johnstown, Pa.

Dear Mr. Slick:

Mr. Edison has referred your letter of May 27th to me. I wired Mr. Bacon to see you in regard to making some arrangements, if possible, to have Cambria recover the acid from our acid wachings.

I hope he will be able to make some satisfactory arrangements with you.

Yours very truly,

Delices boundpour his Edwar has referred four alle 1) May 77 to we - I wered Jun Boun to Strym in ugand a Making Some analiquette of possell to how Edu bur newsen the areal from our acid warhings I hope to well have be able to mathe Some Sates factory arrangements with y yours day Truly

May 39th. 1916.

Pennsylvania Tank Line, Sharon, Pa.

#### Gentlemen:

Your favor of the 35th instant has been received, and I thank you for your prompt attention to my inquiry.

I will accept your offer of two new 8,350 gallon tank ours at a rental of 350.00 per conth each for one year loase, commoncing June 1st, 1916. Will you pleace, therefore, sent loads, and I will sign the came.

I note your remarks in regard to steam coils and it will be agreeable to me to have you substitute later on cars equipped with steam coils, when we get measure the winter months.

I will ask y u to ship the two cars above named about June 1st, and will have my Traffic Department send you shipping instructions therefor.

Yours very truly,

orricit or

## Stanlen Bonnett

#### Colors, Chemicals, Gils and Mineral Broducts

99 JOHN AND 11-18 CLIFF STREETS DOGGETT, New York

PRINCIPAL DOMESTIC AND FORIGO MARKETS

NEW YORK 5/29/16

A. B. C. PIPTH HOITION

3991 AND 3592 JOHN

Thomas A. Edison, Incorp., Orange, H.J.

attention of Mr. Headowsrott

Esteemed Friend: -

present time on freight care as received, 694 galvaniged the handling slity-size degree Sulphuric Asid or like matter than the form of the sixty-six degree Sulphuric Asid or like matter than the sixty six degree Sulphuric Asid or like matter than the six

handling slity-six aggree suppose to Atlanta to the day for a construction of sixty-six degree Sulphuric Acid purchased from all Acid Hanniacturer there, who refused to make deliver; and acid Hanniacturer there, who refused to make deliver; and acid Hanniacturer there, who refused to make deliver; and acid Hanniacturer there, who refused to make the construction of the first our while enrope of the Atlanta, necessitating same, according to relirond contains a records, having to undergo repairs lasting three days.

I assume the Acid Company refused to live up to their contract on this slight technicality, algorithm account of sceing a prefit of twenty or twenty-file dignary per to in selling their Acid elsewhere, my other that having been 655.00 per ton while the parket profess which have refused to make contract with Magacocoing to their own letters, was 2.55.00 per ton f.0.5. Altanta.

Acid Company, in the meantime, have been trying to dispose of the drums without a loss but find it is impossible, therefore, thought probably you might be interested in purchase of these drams at a loss which I am willing to make on same and which will be charged in my damage suit against the Acid Company.

These drums cost me \$6.50 each f.o.b. Baltimore, Md. with freight to Atlanta of 60¢/100 and accrued domarrage charges, which makes the aggregate cost as I figure it today about \$10.00 cach. Hevertheless, I am ready to take

## Stanley Boggett

### Colors, Chemicals, Gils and Mineral Products

CAMER ADDRESS-DOGGETT, NEW YORK A. D. C. PIPTH RDITION S91 AND 3592 JOHN

99 JOHN AND 11-18 CLIFF STREETS

SPECIAL CORRESPONDENTS IN ALL PRINCIPAL DOMESTIC AND PORKIGN MARKETS

NEW YORK

-2-

a substantial loss on these drums and charge same to the Acid Co. in my suit against them.

Can you use these drums? If so, will be glod to learn the best price you can offer me for same other footh. Atlanta, Ga. or delivered Silver Lake, if you can help me out in this matter and of the can time serve your own interests, will apposite it very much.

Yours very respectfully,

SD/HS

Market Miller May 29th, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

Being employed at the sensol Plant for the Tennessee Coal Iron & Rail Soad Company, Pairfield, Ala., which is of the German type and am in position to furnish you any kind of information or blue prints that would tend to make improvements on your plant for a reasonable amount.

Trusting this will be strictly confidential even if my offer is not accepted, and hoping to hear from you at an early date, I beg to remain

Y. /// forster

P.S. Our production from one finishing still for 48 hours is 1200 gallons C. P. Benzol.

Post Office Box 624,

Ensley, Ala.

Whew'

#### DEPARTMENT

## CONFIRMATION OF CABLEGRAMS

| Sent to | Kitetau    | Tokyo               | NEW | YORK, | мау | 29 PAYC |
|---------|------------|---------------------|-----|-------|-----|---------|
| EFFI    | τ          | In consequence of   |     |       |     |         |
| LODY    | 3          | new                 |     |       |     |         |
| ITKU    | F          | invention           |     |       |     |         |
| KARC.   | A          | manufacturing       |     |       |     |         |
| PHON    | OGRAPH     | Phonograph          |     |       |     |         |
| ORWI    | L          | records             |     |       |     |         |
| VARM    | E          | with                |     |       |     |         |
| JANP    | A          | much less           |     |       |     |         |
| OKSI    | L          | quantity            |     |       |     |         |
| PHEN    | OL.        | Phenol              |     |       |     |         |
| EDIS    | ON         | Edison              |     |       |     |         |
| EKIJ    | TY         | propose to contract |     |       |     |         |
| OBBO    | )N         | ata reasonable pric | 96  |       |     |         |
| WIN     | ď          | 1500                |     |       |     |         |
| NUZI    | EP         | sbruog              |     |       |     |         |
| EPH     | Ŋ <b>J</b> | daily               |     |       |     |         |
| VEZ     | AB         | half year           |     |       |     |         |
| UHA     | PE         | telegraph if you or | an  |       |     |         |
| JWA     | UN         | avail               |     |       |     |         |

May Sant, 1850.

Mr. Edison:

#### Re. - Shipments of Sodium Sulphite to

In accordance with Mr. Meadowrott's instructions, I endeavored to obtain information through our Gustons Brokers as to the names of the consignors and consignees of 60,000 lbs. of Sedium Sulghite shigged to Uruguay and 30,000 lbs. shigged to Guba.

Our Gustoms Brokers, Mesers, Historages and Day, have found it very difficult to obtain any definite information regrading these shigments, as they device that the government officials refuse to give any detailed information. Our Gustoms 
Brokers state, however, that the Gresselli Chemical Company, Mo.80 
Maidon Lanes, MY.City, and the General Chemical Company, Mo.25 
Broad Street, MY.City, have recently made shigments of Sodium 
Sulmhits to the countries mentioned above.

I endeavored to get further information through our Shipping Brokers, but was unsuccessful.

WALTER PROPERTY

## The Heyden Chemical Works.

FACTORY AT GARPIELD, N. J. 135 WILLIAM STREET.

GABLE ADDRESS

CHICAGO OFFICE 180 NORTH MARKET ST. NEW YORK.

May 31, 1916.

Messrs. Thomas A. Edison, Inc.,

Silver Lake, N. J.

(8929)

Gentlemen: -

The Carbolic Acid which you have been furnishing us in the past does not keep in crystal form at the present temperature and the cans are so poorly made that every one of them leaks.

We request you to kindly take steps to safeguard us against loss of this kind. First by supplying a Carbolic Acid in crystal form and not in liquid form, and second by putting it in cans which will not look if the acid becomes liquid in high temperature.

According to report from our factory our loss through leaking of liquid Curbolic Acid out of the came is very considerable. We have called your attention tothis fact once. or twice before and must earnestly request that you take stops to overcome this trouble.

Yours very truly,

GS/F.

THE HEYDEN CHEMICAL WORKS.

m. madouerft: f. Some V. Proc. Dr. have arranged to prevent any care of this land on the father. I have upon

this kind in the falur. Swill a poor to you how Haydle handles the came us you king

PHONE, MAIN 2673

## EDWIN G. SCHUTZ, LIMITED

#### FUR DRESSERS AND DYERS

12:14 ST. ELOI STREET,

MONTREAL, May 3Ist, 1916.

Laboratory of

Thomas A. Edison,

Orange, N. J.

(8941)

Gentlemen:-

Replying to your esteemed favor re Ursol D, we would kindly ask you to favor us with price on this article as well as sample.

Also notify us if you are putting out an article similar to the Ursol P, which is a fur brown.

Your prompt attention will greatly oblige

ours truly,

Edwin G Schutz, Dimited

23

CHAPALE - BROOKLYN.
CODES
WESTERN UNION
LIEBERS

DRESSING AND DYEING DEPARTMENT SOCIÉTÉ ANOXYME DES ANGUENS ETABLISSEMENTS

C.& C. Chapal Frères & C.

DRESSERS AND DYERS OF HAS SULLOUPHEY AVE.

1433-445 SULLOUPHEY AVE.

BROOKLYN - HEWYORK HONTREUIL STORETHING FISMES (MARNE) CROCO (CREUSE) SENS (YONNE)

BROOKLYN, N.Y. May 31st 1916

Mr. Thomas A. Edison,

Orange, N. J

Day we manufacto with and dat to with and give quel

pear Sir:

We are in receipt of your favor and referring to your product we beg to easy we have used same and have shipped some to our Paris house and found the article to be very good, but for the present we are well supplied.

We would appreciate it if you will let us know if you are making any fancy Aniline Color and also Aniline Salt) for future delivery.

Yours very truly,

...

8926

Edison General File Series 1916. Chemicals (E-16-16) June OFFICES: 45 Park Place NEW YORK MERCK @ CO.

MANUFACTURING CHEMISTS

NEW YORK.

June 3/16

Chemicals

ST. LOUIS MONTREAL

MONTREAL Main Works

Main Works at G/MM/ RAHWAY, N. J. Laboratory of Thomas A. Edison

Orange Octory

Gentlemen: -

In further reference to your communication of May 16th and to the samples of Soiium Subhite and Sodium Acetate submitted, we regret to advise/that we found the sample of Sodium Sulphite Anhydroud discolored and the Sodium Sulphite Bydrous to be very much smaller crystale than our present supplies and also not yielding a clear solution in water.

STEEL CO.

The sample of Sodium Acetate/was considerably discolored and therefore supplies of either of the items would not be suitable for our use.

We, nevertheless, appreciate your kindness in submitting the samples for examination and regret that we have not the pleasure of passing you an order.

With assurances of esteem, we are,

Yours very truly,

Attested: 0

MERCK & CO.

Bout faol with Merches any more - Cut them out

7476

June 5th. 1916.

Mr. Dowling:

lonediamine, and we have hed a number of answers for arraphonynortice that the course of the following people. You will notice that those are to be two couns chemical on to occur out our pet notice that those are to be two couns chemical on to occur on course until an experience of the country of the course of the course of the notice that the course of the course of the course of the course of the unit in quality. Kindly get them off as eoon as possible to the following people. These two close campions are to be out as course.

g. Cohunner, 50 Helmwise Etroct, Gronte, Canada.
Sohn Birred Hobe and Souting Co., 28th and crosst Home ave. Hilwoukee, wie.
Barred C. Leurecque, 19 - 25 Arama Henrad, webee, Canada.
Larred C. Leurecque, 19 - 25 Arama Henrad, webee, Canada.
Larred Har Comany, 466 Esthurst Street, Yeroto, Canada.
Line Blitish Har Comany, 466 Esthurst Street, Worsto, Canada.
Line Blicricial Hobe & Emming Co., Blissfield, Mich.
The Carthing & Algor Co. Hall, delle, Hich.
Detroit hur Processing & Dyeing Co., 80 Woodbridge St. Lest, Detroit, Mich.
Hestonel Hur Freesing blyeing Lorie, 266 State Street, J., real, Him.
Howth Har Pur Drocking and Joseph Control, 286 Pront Etroct, J. L.

thip to each of the following a one pound packages so pieces and bill to those us 4.00 or sound this is not to be the old the best of the

M. Bromberg & Son Co., 1406 H. Releted Street, Chicago, Ill. Mr. Frank Eartin, 486 Prospect Evonue, Eilwenkoo, Lic.

W. H. BEADOVCROFT.

Mr. Stanley Doggett,
99 John Etreet,
New York City.

Dear Er. Doggett:

I received your favorof the 19th ultime in regard to 494 galvanized iron drums which you now have at atlanta, Ca. to are prott well fixed for drums just now, and have additional chipments on the way, which were ordered come months ago.

However, I showed your letter to ir. Edicon, thinking that he might be inclined to take a chance on ordering cone additional stuff, but he cannot see his way close to buying any zero drums just now, as we shall have an ample cupply for our needs for some time to come.

No wishos  $\mbox{me}$  to thank you for giving him the apportunity to acquire some of those drams.

Yours very truly,

Assistant to Mr. Edison:

Juno 5th. 1916.

U. & E. Chapol Freres & Co., 413 Willoughby Avenue, Brooklyn, W. Y.

Attention of Er. Nm. a. Lutz.

Gentlemen:

Your favor of the Slat ultime has been received, end I am flad to learn of jour good opinion of the Paraphenylenedismine produced at my factory.

hoplying to your inquiry, let me say that I cm not making any femoy Aniline colore, but I cm making aniline Salt on order for two or three of my customers. If you would like to be included among my customers for this chemical, I chould be glad to hear from you as to what quantity you would use, say per wook or per month. To can make fairly quick delivery.

Yours very traly.

ours very truny,

June 5th. 1916.

Edwin G. Schutz, Limited, 12 St. Eloi Street, Montreal, Canada.

Gentlemen:

and I take pleasure in conding you o this mell a sample of Perumbenylonoidemine. Before you try him, let a care attention to the fact that this is a base, and, therefore it is a base, and, therefore it is a base, and, therefore it is a base, and, therefore it is a base, and the sample of the terms of th

39 trice for sect lote of Persphonylonedizmine is \$\delta 00\$ per pound. If you wish to contract for your requirements until the end of December, 1916. I can make you a contract price of \$3.76 per pound. I allow 15 for each.

I expect in the near future to be in the market with an article which is also a base of tracell, for a fur brown. I am not in position, however, to speak of this definitely for a week or two.

Kindly address your reply for attention of hir.

Yours very truly,

Cambria

June 5th. 1916.

Mr. Goorge Otis Smith, Director, Department of the Interior, United States Geological Survey, Washington, D. C.

in.

Dear Sir:

Referring to our provious correspondence in regard to the quantity of Bensel and other light cile obtained from Mr. Edison's Bensel Flant at Johnston, Fa., we are now about ready to report to you, but Mr. Edison wishes me to ask you wh t you mean by value, at the works. Do you mean the cost of production, including everhead expenses? If so, chould the cost include any royalty which might be paid by Mr. Mison.

For your information, I would say that ir. Edison elso has a Bensol Flent at the Corks of the Loodward Iron Company, Toodward, Ala. Do you also wish to have similar information in regard to this plant. If so, will you please sond a coparate eard for the sume.

Yours very truly,

Assistant to Mr. Edison.

Bucholic

## The Heyden Chemical Works.

PACTORY AT
GAMPIRLD, N. J.
CHICAGO OFFICE

135 WILLIAM STREET.

TELEPHONE-JOHN (117)
CABLE ADDRESS
HEYDEN, NOV FORE.

NEW YORK. Ju

C. June 6, 1916.

Messrs. Thomas A. Edison, Inc., Orange, New Jersey

Gentlemen: -

Referring to our complaint of May Slat about Carbolic Acid erriving at our factory in liquid state and with the cans leaking, we beg to advise you that the shipment which we received yesterday leaked very badly when it arrived. We consequently weighed every can and found a shortage of 45 lbs., divided we as per onclosed list.

Kindly advise us in what manner you propose to adjust this difference, and what you expect to do in order to avoid similar losses.

Our Factory Superintendent, with whom we have taken up this matter, advises that the Carbolic held which we get from you is not completely crystallized and that the cans, while they seem satisfactory for a solid product, do not hold Carbolic held in liquid state. He furthermore calls attention to the extreme danger for the people who have to hendle this product in liquid or semi-liquid state.

Under the circumstances we again urgently request that you hold your Carbolic Acid until it is completely crystallized and

(2)

do not ship any that is in liquid state.

We also request you to kindly insist that the truck operators who take the Carbolic Acid from your works cover the druns up so as to protect them against the offect of the sum, as this may melt the Carbolic Acid, in view of the low melting point of your product.

Trusting that you will give this matter your careful attention, we remain,

Yours very truly,

GS/F.

Encl.

THE HEYDEN CHEMICAL TORKS.

Aine y. Pres't.

June 6, 1916.

#### [ATTACHMENT/ENCLOSURE]

June 7th. 1916.

Mr. Edison .

After making some inquiries I have gotten down to the root of the trouble. We get our galvanized iron cans from the American Can Company. It seems that they are trying to turn out a package made entirely by machinery, and we have been getting some of them. It transpires, therefore, that these machine made cans are not as perfect as the old steel cans which were made by hand.

We have had their manager over to the place, and he says that he will immediately begin to deliver the old style hand made packages and continue same until they have experimented further with their new machinery.

I suppose we will have to allow the Heyden Chemical Company's claim of 45 pounds.

Would it not be well for me to write the Heyden Chemical Company for a statement which I have detailed above?

yes, + allow the claim

Chamical

## HADRIES LAZARID

#### Dangermers - Chemicals

92 WILLIAM STREET

NEW YORK

A.B.C.Code 51 Epilips

Mr. Meadowerest,

c/o Er. Thos. A. Edicon,

Orange, H. J.

My dear Mr. Meadowcroft;

With reference to our telephone conversation, I thank you very such for the steps taken by you in regards to our customers.

Then I had the pleasure of seeing you a few days are

you told me you would give me a list of the chemicals you imported regularity from abroad and I shall be pleased to get same in order to have a change of quoting you and it is possible that we might be able to settle some business in these

Thanking you for past favors, I am

Munta/ard

m Edwin : miran is male out a till ju

BRUSSELS NELDILM

imports.

June 7th. 1916.

Door .r. Dowling:

I have been trying to strike up some trade on Sulphite of Sode, and have get two inquiries from Sweden. They are from the following parties:

> Porcy Lundwall & Company, Vastra Hammg, 6, Gothonburg, Ewodon.

Aktiobolugot Axol Christiernsson, Fost Box 222, Stockholm, Svorigo, Swoden.

I have written to them stating that we were conding to them camples of Sulphite of Soda, Hydrous and Anhydrous, by express prepaid. Lill you please show this memorandum to Er. Excen and ask him to provide you will liberal camples of good material in each eace, and them have them safely pecked and thipped by express propriet to the parties shown mand.

OFFICE OF

## Stanley Boggett

## Colors, Chemicals, Gils and Mineral Products

COLIA ADRESSA.

DOGGETT, HOW YORK
DOGGETT, HOW YORK
DOGGETT, HOW YORK
A B. C. FIFTH SIGHTON
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frainger at time less tegetter en halles fill for the particular that I have made it is ejected joint to figure and a profession on my bardener, is when of the foother who established free free for joint, after in view of the foother who established for joint, after in view of the foother open to some fruit pen togent this menth is uncold, somet fruit related year joint out helders of mentions are to emphis me to ment that the form joint pendeng or referred to sempetition?

I feel quite pertain you do not cleb to see the local money on contribute, and is view of the feath whome valuable and one your may pleas to engagest a matinfratury appropriation in pairs.

Chanking you in advance for sonsideration cutonded to its in this direction, I am.

SD/HS

9045

Your for rouse there.

#### [ATTACHMENT/ENCLOSURE]

Meak a conft,

How much to he contracted to take or which how at how at preparing to lay down many to many down a fair for a dam a day for

all this year, at 50 cents. I will will the him mounting to Meatowearf of time ten this

A. MCDOWELL, PRESIDENT.
HENRY T. CLARK, SEC-THEAB.
W. H. MCDOWELL, SUPT.

LADISSEMISSES/DELERY

Colland Nech IV June 7th 1916.

Day that he is

Wr. Wm. H. Meadowcroft.

Mr. T. A. Edison, Orange, N. J. af whichly mustaken
Daar Mr. Mendoworost, no body has ever gat

Your favor of the 5th distinct disappointment to me. clining market, that is, if the market has decline time of delivery we must meet this lower price, however, if the market advances we then must delivery at the price at which the sale was made. Now we the class of goods we manufacture varies in price from 60¢ to about 75¢ per dozen according to the price of raw material plue the demand. Right now the market is 75¢ but not strong, although it is impossible to figure one penny of profit at the present market price of various commodities. While there are not more than fifteen mills of any size naking this class of cheap merchandise, competation is very keen, and it is fearfully hard to do better than make a fair living. Now several of our most formidable competitors have got Oil at(15g) prominent among whom are the Parker Hosiery Mill & Dye Works, Portsmouth, Va., Loudon Hosiery Mills, Loudon, Tenn., Delaware Hosiery Co., Wilmington, Del., and many others, while what few left out of the fifteen cent oil are all taken care of at 40¢ except

About a year ago one large Consern stand to Take Contracts for 3 years, 35 sects for 1st years Occur for second year AM should it go lower in they would follow alown to 15 cents, but before they made many Contract the price of acc their numbered of the their puritionals at value) so fast they will dress from the Latery They have started up again but compel wayloods they for 3 years 40 celies for 1917 25 center for 1918 + to fellow down after Utal teme maked market who cancella

Mr. W. H. Meadoword Mr. W. H. Mills Bl Rumynedd Mills H. W. ts not



Scalland Soch . 1 June 7th 1916.

Mr. W. H. Meadoweroft, #2.

Runnymede Mills and ourselves. We of course had no hope of getting in with the fifteen cent class but we did hope that we would not have to be left alone paying a higher price than any of our competitors. Of course we know that there is not as much profit in 40¢ 0il as there is an 60¢ Oil. but we did feel that there was a sufficient profit to justify Mr. Edison in putting us on the same basis that the General Chemical Co. have done their customers. If it interfered with his plans, as I explained to you when there recently, he could bill the Oil at 60¢, and at intervals of every three months or even at the end of six months he could refund twenty cents, and if he wished this arrangement kept absolutely inviolate, we would guarantee, to do so under a forfeiture of the rebate. If the class of goods we were making showed any profit we would not pursue the subject any further, but it is going to be a desperate matter to break even under present conditions, and if you can help us it will certainly be greatly appreciated.

Awaiting the pleasure of your reply, I am,

Yours very truly,

June 8th, 1916.

Er. C. .. Harkus, Purchasing Agent, Hastman Kodek Company, Bochoster, H. Y.

Door Mr. Merkus:

I suppose you have been expecting to hear further from us in regard to the matter of Para Amide Phenol. The enly reason for the delay has been that it. Edicon has been exceedingly only or very important matters, and has been manble to give his coronal tentions, and has been manble to the coronal tentions, and has finally decided to go into the management of Fara amide chonol. In details of the plant are being laid out, and come of the atorical is circedy on the ground. The making of the apparatus will be put in hand at once, and think that attain the next five or eix weeks we shall be turning out a regular supply.

In the meantime, ir. Mileon wants to make now of meaing a quality that will be acceptable for photographic purpose, and he has saided no to write to you and ank if you will send me a comple of one or two counces. He would rather got it from you, as he considers that you are headquarters and that you would be able to let him have the right kind of material.

awaiting the favor of your reply, I remain,

Yours very truly,

Assistant to Mr. Edison.

Memo

#### June 8th. 1916.

Mr. Dowling:

Herowith you will please find original letter i have written to the inteburgh Gruched Stool Company. [111 you closure requiresting to perfect the confirm the letter by a regular gurchasing order.

Please forward your requisition to the Purchasing Department, attaching thereto my original letter, which will be servanded by the surchasing Department to the Sittleburgh Cruched Stool sengenty with their purchasing order.

This letter is written in accordance with Er. Edicon's instructions, and we are roles to try the gulverized from as an experiment. Er. Edicon has already emplained it to Er. Christonson.

For convenience and to make our files colf-explanatory. I enclose hereafth earbon copy of this memorandum, thickness can also attach to my lotter, tegether with your requisition. This will exclaim matters to the purchasing Department.

. . H. MEADOLCROFT.

#### CARBOLIC ACID DIVISION.

Silver Lake, N. J., June 8th, 1916.

Mr. W. H. Meadowcroft.

Subject: P. PHENOL FOR THE U. S. MAVY

I am sorry that two batchys intended for the Many were rejected by Lieut. Combr. Kimborly, owing/to a solidifying point lower remains 36° O. According to your instructions/ I have been in communication over the tybons with ir. Risberly, and am per propering two other batches to be substituted to the repeated test.

It unfortunately so happened for the first time, that Mr. Kimberly was testing the Phonol on an exceedingly wet and humid day; in fact, I believe the humidity was almost as high as it possibly can be. Under such circumstances the time which it takes to drill a sample out of the hard orystallized Phenol is fully enough for the Phenol to draw sufficient humidity out of the air to lower the solidifying point more or less. Mr. Kimberly, when conducting the last test, showed to me how, in about one-half minute's time, small crystals of Phenol of about one-eighth inch diameter, placed upon a knife, could be seen partly to dissolve in the open Now it is further to be taken into consideration that Mr. Kimberly, instead of testing the solidifying point, as is usually done, on a quantity, enough to fill one of our normal sample bottles, is testing one small crystal of about one-eighth inch diameter only. Obviously it is rather difficult to keep this single small crystal from becoming moist in damp weather, evern for a very short time, and so it happened that from three samples the two with the higher solidifying point -- 40.4 and 40.6 respectively -- were rejected, while the third batch of 40.3 solidifying point was accepted.

There talked the situation over with ir. Kimborly on the 'phone, telling him, that I am arried, ww will need with similar difficulty again in case the test is made another thee on a dump day, and the same that it is a same to be a same to

The rejected Phonol is, of course, absolutely O-K for all other purposes, and I have it transferred to our stock for spot sales.

The new batches for the Mavy will be ready some time to-morrow, (Friday, the 9th), and as soon as our our test has been made I will send a letter by messenger to Mr. Kimberly informing him that the Phenol is ready for his inspection.

M. KALMERHOSS

#### CARBOLIC ACID DIVISION.

Converte Silver Leke, N. J., MAR

June 9th, 1916.

ur. W. H. Meadowcroft:

PHENOL FOR THE U. S. HAVY Subject:

The temporary interruption of our distilling plant unfortunately prevents me from getting the full shipment for the U. S. Navy ready to-day, the last batch intended for the Navy just being in course of completion when the fire, which I report separately. broke out.

I do not think that the interruption of our distilling department will last more than a couple of days; in fact, I hope to start up again Monday, or at the latest, Tuesday.

I would ask you to kindly let me know if such an accident, being a clear case of force majour , does not stop for the time that we are hindered to manufacture, the penalty to be paid the U. S. Navy for the delay.

sond Liout. Condr. Kimborly a letter informing him of the situation.

June 9th. 1916.

Mr. Louis Lagard, 92 milliom Street, New York City.

My dear Mr. Lazard:

I received your layer of the eight instant in regard to the apportation of chemicals from abroad. I showed it to Ir. Edison. He is very busy just now and scarcely has time to make up any list, but he tiches me to tell you that Sodium Hitrite will coon be wanted by us. It is now imported by Conant & Company, and they charge 12/ per pound.

I shall be glad to hear from you in due time as to whother you can do anything on this line.

. Yours very truly,

Assistant to Mr. Edison.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WASHINGTON

File The

OFFICE OF THE DIRECTOR

June 9, 1916.

Mr. Wm. H. Meadowcroft,
Assistant to Mr. Thomas A. Edison,
Orange, New Jersey.

Dear Mr. Meadowcroft:

In reply to your letter of June 5, 1916:

The desired value at the works, of the bensel or other 112pt oils obtained from the Edison plants, is the salling value, or, if the products were not actually sold, the closest approximation of such value had these products been marketed. This would include the cost of production, including overhead expenses and royalties, and such profit as might have been derived from the sale of the products in open market. It is realized, of course, that if they were not sold, the value thus derived would be largely a matter of estimate.

It will be appreciated if you will furnish also similar figures in connection with the Edison benzel plant at the works of the Woodward Iron Company, at Woodward, Ala., duplicate blanks for which are sort herewith, together with an envelope for the return of the information. The report in which those figures will be incorporated is nor in course of preparation.

Yours v

yery traity,

INCLOSURES (4)

Sefonio

#### EASTMAN KODAK COMPANY

ROCHESTER, N.Y.

June 9,19:6.

Dear Mr. Meadowcroft:

It affords us much pleasure to have the opportunity of sending you today a two ounce sample of Paramidophenol which represents what we consider a standard quality of this chemical.

We are very glad to know what your plans are so far as the production of this article is concerned and we hope that we will hear from you again when you are ready to report further progress.

Yours truly, My Mun Muy

Mr. W.H.Meadowcroft, Laboratory Thomas A. Edison, Orange, N.J.

Meadocraft-See Dowlin Low no longer Care of of are perton, fex et cips one graing on a German me Doubling will 0.42 nu Dally Las

June 12, 1916. Aleiline

Mr. A. C. Phory,

Purchasing Astes

Orango N. J.

Dear Sir:-

I noticed coming through the mail the other day a letter from Buttorworth-Judson Co. notifying us, in reply to a lottor written them by some one, of the discontinuance of further shipments of Mixed Acides until further notice.

You are probably not aware that Butterworth-Judson Co. purchase from us the recovered Sulphuric Acid, after our operation of Mitrating Bonsol has been performed. In doing this they have provided us with special cars in which this recovered Sulphuric Acid is returned to those. I was only able quite recently, after much persuagion, to have this concern forward those special cars, and new if their future shipments are to be stopped, and the recovered Acid permitted to run through the newer, a loss will be incurred by this Division.

The care in question are B.J.X. 237, 238 and G.A.T.X. 8043. think a botter way would have been to ack the Comerni Chemical Co. to lessen their shipments and divide our monthly requirements between them. event I leave the matter in your hands for adjustment.

Yours very truly, Courling

Copy to Mr. Kellow and Mr. Mendowcroft.

Juno

June 12th. 1916.

Mr. A. McDowell, President, Scotland Lock Cotton Mills, Scotland Hock, H. C.

Dear Mr. McDowell:

I received your favor of the 7th instant, which I should to hr. Edison, and we discussed the matter very fully.

my may of explanation let me may that a year go can of the big producing conjuncts carried in to make some contract under which the cuttener got the oil at 164 the second year. Some after their traveling representative and out with those contracts the prices of rem instering the field to more rate of the contract to the field to make their travels. In the mean-time, those representatives had ade a for contract, and unfortunately for you, come of your competitors ever in good luck and had signed up on the three year contract which give them the oil at 164 for the second year. You go that come, if ever not not not come, if ever now and related to the prices for oil more and even mext year.

under the exceptional dirumentance related by you, we are willing to help you out, but cannot go below fds. Beginning Joly your tot the cannot go below fds. Beginning Joly your tot the arrangement will be carried out in the call three months portions, as suggested by your latter. This cannot make be kept theoliately confidentially, and we chall expect you to kindly do so under guarantee as suggested by your latter.

Yours very truly,

assistant to Mr. Edison.

Mason Go chead & daugn Benzidere plant 4 Let see t = Estemace Cullo Address "Edison New York" Trom the Laboratory Thom as A. Edison, June 13th, 1916. Peoples Bank, St.Paul, Minn. Gentlemen: We have been referred to you by the Wear North Star Fur Dressing and Dybing Works, Messrs. Fodlasky Bros. Froprietors, St. Faul, Minn. give us regarding this concerns financial responsibility someral reputation, how long they have been in business, and how long they are dealing with you as well as any other details which would be accorded to the contra and now tong energy are questing with you as well us any other details which would be of service to us in determining on a line of credit to be granted them will be greatly appreciated held strictly confidential and without responsibility to yourselves. Thanking you in advance and assuring you of our willingness to co-operate at any time, we remain, Yours veryn truly, of allactions concern is the to effort 1 ans and the forther have been for the forther against the forther and the forther against the forther and the forther against the forther and the forther against the forther and the forther against by allactics concern is to measone. of

### [ON BACK OF PREVIOUS DOCUMENT]

St. Paul, Minn., June 16th, 1916.

Thomas A. Edison, Incorporated,

The parties referred to on the opposite site side of this sheet are valued quarter ers of this sank. We have and are granting them accommodations. Their business with the satisfactory and we do not doubt but what they will take oare of any obligations they might have.

Very truly yours,

PEOPLES BANK OF SAINT PAUL

Casnier.



COLORS CHEMICALI W. H. PARSONS MANUFACTURER'S AGENT AND BROKER 17 CHARLES STREET NEW YORK Www Thomas a Edison Dear Sir On losting over my List of place 1. Buy Colors I form I you letter Dec 6 4.15at that time I Sook what Color Mon offered Mr Garafhanylandramine I wish to get - mous at this time on the Brown shade in lots 10=20=50 Wa providing the Color. in Satisfactor. Please send sample Thic + queming I may Epped of spot lash Ramany Very Luly your HH Taraons

## E.R. SQUIBB & SONS, NEW YORK MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858

Carbolic

EXECUTIVE OFFICE

June 14, 1916.

Mr.William H.Meadoweroft, Assistant to Thomas A.Edison, Orange, N.J.

My dear Mr.Meadoweroft,

Owing to the long delay in receiving your two last chipments of Phenol caused by the traffic congestion and the decline of the market price of Phenol, has placed us in a wrong position.

You have charged us 77% g per 1b. and our present stock is 12000 lbs. The market price is 65 g. Under all these circumstances I would ask you to please have Er. Edison inform us, what price he will make us on the stock, now in our hands, and how he will place us, so as to enable us to market your product with a reasonable profit.

We are anxious to build up this business for you, but we must, of course, have your cooperation, and placing the situation thus frankly before you, we are confident that Ir.Edison will meet up in a manner that will be satisfactory to both sides.

Hoping to hear from you by an carly mail,

we remain,

Very A THEODORE WERE ASSEMBLY
Vice President
E.R.SQUIEB & SONS.

TW:B 7.6.0

Mr.William H.Meadowcroft,

F.S. Fifteen drums of the Phenol just received after such long delay, have been found by our laboratories to contain red acid. Please let us know whether you wish us to return it to you or what disposition we shall make of it.

T.W.

milme

June 15th. 1916.

Er. W. H. Hason, Engineer, or, Mr. W. S. Dowling, Hanager, Amiline Division, Silver Lake, N. J.

Dear Sir:

At .r. E ison's express request I write this letter authorizing you to allow 601. Bryant, hr. Rouch and hr. Szamutolaki to go through the antiline and hemol Plants. 601. Bryant is the Commissioner of Labor of the State of New Jorsey, and the other gentleman are also connected with that Europe.

Yours very truly,

assistant to Mr. Edison.

Calle Seldens Milsni, N.Y.

MINISTIN & CO HISHRED

Richbone 10010 Madison Sig

(Mitsui Bussan Kaisha, Ltd.)

YOKOHAMA YOKOSUKA кове OSAKA NAGASARI MOUL NAGOYA KUCHINOTZU

TSURUGA

MILKE WAKAMATSU KARATSU KURE SASEBO MAIZURE MURORAN AWOMORI MIYAKO SUNAGAWA

OTABU TAIREH TAINAN HONG KONG SHANGHAL NEWCHWANS сновним HARBIN VLADIVOSTOR

TIELING TIENTSIN CHEFOO SWATOW AMOY гоосном TSINGTAU PEKING

DALNY

MOUKDEN SECUL CHEMULPO ANTOHREN KWANGHINTU DANGHOR RANGOON SOURABAIA CALCUTTA

HAMBURG LYON

PETROGRAD DALLAS SAN FRANC SINGAPORE

SYDNEY 25 Madison Avenue. Now York June 15,

Mr. W. H. Meadowcroft, Thos. A. Edison, Inc., Orange, N.J.

Dear Mr. Meadowcroft:

I thank you for your letter of the 14th instant regarding the unfavorable condition of our Benzol both in packing and quality.

Will you kindly advise us the detail of the same, and write us very strong letters so that we can use same in order to recover the damage from the manufacturer who sold us that Benzol.

We are very sorry that we have caused you lots of trouble, but hope to return the courtesy whenever we get the opportunity.

Very truly yours,

ST/KN.

m.

zurich, June 15th, 1916.

Thomas A. Edison, Esq.,

Orange N.J.

Dear Sir:-

I duly received your favor of May 23rd and in compliance with your request I have delivered to the American Consul General in this city the process of paraphenylenediamine which is enclosed in this envelope requesting him to have it forwarded to you.

Duplicate will follow by next mail.

I beg to remain, dear mir.

Yours truly,

per D: W. Threshy a. Threshy

Enclosure.

PABRICATION DE LA PARAPHENYLÈBEDIAMINE.

La paraphenylènediamine prend naissance par réduction de l'amideazobenzel au moyen de la poussière de zinc en bain aqueux.

I.

#### APPAREILS:

- A. Chaudron on fonte emailiée- dit appareil à sulfonecapacité 250 litres environ; agitateur mécanique. Il est manie dans une euve en bois pitchepine formant bain-murie et assez spacieux pour permettre de refreidir à la glace (morceux). Tuyanterie nécessaire pour l'eau et la vapeur pour le chauffage du bain-aurie.
- B. Thermondtre enfermé dans un tuyau de cuivre, fermé d'un côté.
- C. Vase on gree de 100 litres environ ou à défaut une petite cuve en bois avec robinet en bas; sort pour emangaginer la solution du nitrite de noude; 11 est placé au-des us du chaudron.
- D. Deux à trois marmites émaillées de 300 à 500 litres.

a desir da a maria de la compansión de l

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- B. Appareil destillateur de 300-400 litres avec accessoires nécessaires pour condensation et réfrigération.
- F. Réservoir en têle, forme cilindrique, de 400-500 litres servant de décanteur pour l'aniline condensée avec vapeurs d'eau.
- G. Réservoir en tôle, forme rectangulaire,1,20 m x 1 m x 0,80 m corvant à lever l'amidoazobenzol brute.
- H. Séchoir; double fond, plomé en fonte, de forme sphérique avec rebord. Diamètre 1,20 m; profondeur avec rebord 850 m/m; profondeur same rebord 150 m/m.
- I. Moulin.
- K. Doublefond fonte; 400 litres environ. Couverele formant hermetiquement en fonte, avec egitateur; muni d'un réfrigérant à flux et à reflux; doit se combiner, c'il y a liou, avec expareil réfrigérant pour condensation/alcool etilalible.
- L. Doublefond à évaporer, afin de concentrer les eaux chargées de paraphenylènedismine.
- M. Vases en grès ou marmites émaillées à criatalliser, de 50 à 60 litres.

- Carlo Brank March

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#### II. Préparation de l'Amidoazobenzol.

Dans le chaudron -A- on porte:

Nos.60.- Anlline pure, qu'on anène à la température de 5-10 Cela. moyennent de la gluce ou de l'eau glacdecèune le bain-marie; puis on met l'agitatour en murche et en fait couler dans l'ansiline, lentement en ayent soin qu'il n'y ait guire d'élévation de température

% Mos.25.- d'acido chlorhydrique 21°B6 ( p.spec. 1,1) ).

 $\label{eq:Aprèc l'introduction de l'soide chlorhydrique} on fait tourner encore pendant deux houres.$ 

Ensuite on chauffe A 25°Celu. et on fait couler lontement dans l'espace de deux heures de temps environ une solution de

Kos.50.- Hitrite do soude 20] ( p.spec.1,14 ) en prenant soin que la température ne dépasse pas la limite indicade.

Le mitrite coulé, on laisse tournor le diazoencore pendant deux heures et en arrête ensuite, pour laisser repeser le mélange à température ordinaire pendant 24 heures, tempe nécessaire, pour la transformation en amidoscohemail.

1. 1. 1. 1. 1. 18 M. A. 1

-4-

On transvase dans une marmite dimillée- 400 litreset on y ajoute peu à peu en brassant bien

environ Zoc.12.- de soude caustique 40°Bé ou la quantité nécessaire pour rendre franchement alcalin, ce dont on se rondra compte par une épreuve. Le mélange alcalinisé d'amidonzobenzol et d'enfiline est porté ensuite dans un appareil double-fond-déstillateur-3- en fonte ou en cuivre, dans lequel on a mis d'avance 150 litres d'eau. L'aniline est chassée par un courant de vapeur direct, recueillie par le réfrigérant et décantée, pour rentrer à nouveau dans le courant de la fabrication.

Le résidu dans le déstillateur, délibéré de l'antline est, après rétroidissement vers 60°cla. transvasé dans un réservoir en tôle 1,20 m x 1 m x0,80 m pour y être lavé à plusieurs reprises à grande eau, jusqu'à rénetion neutre. On jette ensuite sur des
filtres et en laisse égoutter à fond. Ensuite en le porte ânns une
marmité émailée, tarée, afin de connâitre son poids; en brasse et
remue intimément pour en faire une bonne moyenne et en fait par
éprouve une détermination de la matière mêche. Bacé sur cette analyse,
on calcule la quantité nécessaire d'aciée chlorhydrique pour la
transformation en chlorhydrate d'amidessobensol qu'en verse, peu à
peu, dans le mærmité en brassant blen.

Finalement on porte sur un séchoir double-fond plombé, chauffé à la vapeur à échoppement libre. Le masse, bien romuée, fond en bouillie homogène; on y erse envore environ 55 de la quantité calculé et déjà employé d'acide chlorhydrique et en brassant de temps en temps, on évapore à siccité complète. Dans un moulln en fonte on rambne on poudre fine.

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#### III. Réduction de l'amidoazobenzol.

Dans un double-fond- Z- mménagé à chauffer et à refpoidir, avec agitateur et cohobateur ( réfrigérant ? reflux ) on porte:

20 litres d'alcool 85% et

40 Mos. chlorhydrate d'unidenzebenzel pulvérisé.
Après aveir fuit tourner aueleue temps.

pour bien humecter la masse, on y verse

180 litres d'ean et on chauffe lentement vers 65°Cele.
Un commence alors à ajouter, per petites

portions, peu & peu

 ${\tt mos.30.-} \ \ {\tt do \ poussière} \ \ {\tt de \ zinc \ de \ bonne \ quelité, on}$  évitant, que la température monte au-delà de 75  $^{\circ}$  Cels.

Après quolques heures 4 heures en moyenne-lorsano l'addition de la noussière de zine est terminée, on

chauffe jusqu'A 85-90°Cols.; on maintient cette température pendant une heure su moine.

Un arrête alors le chauffage pendant un instant et des que l'ébullition de l'alcoel s'est apaisée en ajoute, Kos',12.- de carbonate de soude en poudre ( Soude Source )

pour rendre alcalin. Si une épreuve a montré une franche alcalinité, on transforme le cohobitour en fréfrigérant descondant et en recommence de nouveau à chauffer pour chasser d'eberd l'alcool, qu'en récentile, et qu'en fait passer enquite à la colonne. L'alcool enlevé, en injecte de la vaneur d'eau pour faire passer l'antline forméee par la réduction

-6-

et qui peut rentrer de nouveau dans la febrication.

La quantité est de 10-12 nos. environ.

Après ôtro débarassé de l'alcool et de

l'aniline le contonu chaud de l'appareil passe par un filtro.

lonediamine est portée dans un doublefond pour s'évaporer sans retard.

chaude, est remie dans l'approil pour y subir un second bouillon avec 60 li'res d'eau environ pendent à-l heure, efin de bien 620 aire le reste de la paraphenylhidiemine; on filtre ensuite à nouveau, on lavo à l'eau chaude et laisse bien égeutter, ainsi lave, le rénida est éxaminé, s'il y a lieu de fire encore un autre bouillon; autrement en le jette de cêté. Foutes les solutions filtrées sont réunies avec la première solution et sont évaporées et concentrées à un volume de 10 à 60 litres environ. On fera sur un petit échantillon prélavé l'observation de sa cistillisation c.a.d. de es concentration. Un le porte ensuite dans une marmité émaillée en laissant refroidir et cristilliser pendant deux jours.

riltré per la suite, il reste our filtre de

Ros.18. - à 20. - de paraphenylàndiamine en cristeux. Gunnt aux-mères, on réunit généralement

pluniouro opérations ensemble. Après les avoir réduites, on y ajoute de l'acido chlorhydrique à fête dose et par refroidiscemment on obtient tout le reste de la paraphenyldendiumine sous fe me de chlorhydrate, étent incoluble dans l'acide chlorhydrique.

Prix de revient.

| 08.60    | Aniline pure           | 1.50       | Frs.90     |
|----------|------------------------|------------|------------|
|          | nitrite de soude       | 85 %       | 10.20      |
| . 12     | Soude caustique 40 Bé  | 25 %       | 3          |
|          | Acide chlorhydrique    | 12 %       | 12         |
|          | Alcool 85%             | 1.50       | 30         |
|          | Ponssière de zinc      | 50 %       | 15         |
|          | Soude solway           | 12 %       | 2.40       |
|          |                        |            | Frs.162.60 |
|          | Kos.12 Anilir<br>A Fro | 14.40      |            |
| Vac 19 - | Paranhenvlendismine    | Frs.148.20 |            |

1 K. = Frs.8.50



to make

( H. Opdyke. Comod was I some Co

we will how to make all mythaline place white the per well Probably force to se subtime must of the willess you can got better to good results by showing down sale of yellow with Precin half. I sulture of the Samples you & fravalul wine of the samples you & fravalul wine of the samples you & fravalul wine of the samples you getter of you can be food Pun what frame by spanning Each Bank we could ship it ans were

## (Dept.- single copy.) AMERICAN CONSULATE-GENERAL

ZURICH, SWITZERLAND

June 16th, 1916.

Mr. Thomas A. Edison,

Orange, Hew-Jersey.

Sir:

I have to colmowledge the records of your latter of May 55d, encloring a check for <u>late</u>, 41.15.0, drawn in favor of Dr. W. heacht, whose address in 47, Rue du Right, furich, which you request that office to hand to to br. knock in otherape for a cortain chemical process, providing we are satisfied that Dr. Knock's representations are correct, to the effect that he is a chemical oughner of the Peteral Polytechnical School at Smrish and helder of the Dector of Philosophy Decree of the University in Surich, and has also been in the employ of the Prench Toxin of the Endische Anilin and Sode Pabrill as of the Veines du Phône at La Plaine, near Convey.

In reply I have to state that Dr. Imagin has collect this Commission-hearest today and embilited various dominate, contracts, etc., indicating that his representations to you are true. I have therefore, in view of possible request, to transmit herevith a letter addressed to you from Dr. Imagin, oneloning what purports to be the accommitted.

description and formulae for the manufacture of parapheny-lànediamine.-

It is understood that a duplicate of his description with formulae will be forwarded in a subsequent unil.-

I cm, Sir,

Very respectfully yours

Prancis D. Deene

.series: Consul-General.

Dielocure as stated.

865.7

Door Mr. Dowling:

I hand you herewith a little correspondence we have had with the Scotland Hock Cotten Hills in regard to their antiline Oil. Er. Helbowell was up here a week or two ege and made on explanation of the position in which he is placed, and asked if we would favor him the rebate on the new contract. Hr. Edicon declined to do so at the time, but in view of the representations made in Hr. Helbowell's letter of the 7th instant, Hr. Edicon agreed to rebate him down to 46¢ per pound on the new contract.

You will see from this correspondence that all chipments on new contract are to be billed at 60%, and at intervals we are to could him a robate bill bringing the price down to 45%. I think we had better do this at intervals of two months.

You can keep thane copies of the correspondence in your files, together ith this monorandum, which will be your authority for making the relate.

W. H. MEADOWCROFT.

Enclosures.

# WOODWARD IRON COMPANY

WOODWARD, ALA. June 19, 1916.

Mr. Thos. A. Edison.

Orange, N. J.

Dear Sir: -

We are in receipt of yours of the 16th.

We are entirely willing to pay one-half of the \$516.10 mentioned in your letter, being the compromise covering shipment of naphthalene to the Pacific Coast.

We note what you say in regard to all of us being new at this business. So far as we are concerned, we are entirely satisfied with the way you handled this flaked raphthalene business and appreciate your assistance in the matter very much.

Yours truly.

Mr Edward sentiments are rabbe certainly gradient

WOODWARD IRON

Vice President.

June 19th of Thomas A. Edison, Orange, N.J.

Attention Mr. Meadowcroft:-

Dear Sirs:-

Your favor of the 16th. inst. at hand and also your contract form. We are herewith enclosing the contract properly filled out and hope same will find your approval.

As we are in a bad need of dye material we wish you kindly will forward the fifty pounds, which you state in your letter that you are able to send at once.

Trusting we may have a favorable reply, we remain,

P.S.

If possible, wish to have two shipments month., of 50 pounds each.

#### CARBOLIC ACID DIVISION.

Silver Lake, H. J., June 20th, 1916.

Mr. W. H. Meadoweroft:

Subject: DISTILLING OF 90% BENZOL

Referring to our conversation over the telephone this distributions of 90% Bencel show that the cost, based on 1,000 gals. of Bencel going into the still are;

| . For | Steam  | -   | - | -  | -  | - | - | - | - | -  | \$ 4.25 |
|-------|--------|-----|---|----|----|---|---|---|---|----|---------|
| **    | Water  |     |   |    |    | - |   |   |   |    | .50     |
| 11    | Electr | ic  | L | ξÌ | ıt | - | - |   | • | -  | .20     |
| **    | Labor  |     |   |    |    |   |   |   |   |    | 17.00   |
|       | Tot    | a 1 | L | -  |    | - | - | - | - | ٠. | 21.95   |

In case we would add to this overhead expenses, we would count 280% on labor, i.e., - - - - - - - -

47.60 \$ 85 69.55. 1601

Grand total, including depreciation - 69.55. 76cy f.

The figure for depreciation -- 280% -- appears to be

rather high, but this is in line with instructions we received lately, and according to which the depreciation has to amount to 33-1/3% of the total investment per year.

We can safely figure that we can distill every 24 hours (running day and night) 800 gals. of 90% Bensel going into the still. I am always sentioning the material going into the still only, as the output of Bensel Heads, P. Bensel, Tuluol Heads, P. Tuluol and Solvent Maghtha depends entirely on the quality of the raw material.

M. KAMPANOFF.

NEW YORK BRANCH MARLINCKRODT BUILDING June 20th, 1916. Orange, N.J. Dear Sir: Will you please quote us your lowest price advise us what quantities you are able to supply. we would be glad to consider an arrangement for taking your Will you please also advise us whet Bron U.S.P. (Iron by Hydrogen) and if so, what price, mailing us also a sample for examination Your early reply will oblige, tu.ucE.√

CARBOLIC ACID DIVISION.

aubolie Silver Lake, N. J.,

Juno 21st. 1916.

Mr. W. H. Meadowereft. Edison Lab.

FILLING OF P. PHEMOL FROM PHEMOL PLANT #2 IN BOTTLES. Subject.

I have thought over, how to arrange filling into bottles of P. Phonol to be delivered by Phenol Plant #2 to this plant, the scheme which you outlined to me on the telephone yesterday afternoon. As I meet with quite some difficulties, I think it better to invite your attention beforehand to the situntion so as to enable you to come to a final decision.

At present we take the hot Phenol coming from the still, fill it into specially prepared cans and transport it to our filling tables whilst the Phonol is still hot. The transfor from still to filling tables is being made by means of low trucks fitted with wheels, and this has to be done very carefully so as to avoid splashing of the valuable material. The cans are hoisted up and put into drums, where they rest upon heating coils so as to keep the Phenol in hot condition whilst it is filled into the bottles. Special care, of course, is to be taken to prevent any dust or dirt from entering the Phenol during this transferring and filling process.

If we now would get the Phenol from Plant #2 we would, of course. have to let the material stand until it becomes crystallized. The transfer of the cans into which the Phonol is to be filled will have to be done yory carefully so as to avoid breaking of the outgoing pipe connected to the bottom. After receiving the filled cans with the crystallized product by means of a truck we would have to melt the crystallized Phenol, which would, of course, take quite some time, whilst under abnormal weather conditions, when much humidity is in the air, we run the danger of getting the solidifying point lower than it ought to be.

Furthermore, we have now for our present service eight 200-1b. transporting cans fitted with pipes on the bottom, four being ready to be filled whilst the other four are being emptied into the bettles. In case we have to receive Phonol for the same purpose from Plant #2, I suppose that we should have at least eight more of these cans.

It seems to me that we might from this arrangement, preferably at the transfer of the special cans on trucks, in leading and unleading, experience quite some trouble, and that the extra expenses would amount to quite some money. I, therefore, would like to suggest that:

Either a similar arrangement for filling bottles as I have put it up in our plant be made in Plant #2; or,

That we fill bottles with Phenol to be delivered by Plant #2 from our own product, and that instead of such supply Plant #2 make delivery of P. Phenol in 250-lb. cans to customers which originally ought to be supplied by us.

If you could spare the time to just take a look at our arrangement for bottle filling you would see that the emponses have been quite low, and I presume that it might induce you to decide to have the same arrangement made in the other plant.



We are in receipt of your letter of June 21st. Owing to procesure or twainess and the writer having been many sick we regret that you were not written to regarding your shipmant of June 6th, seven drums of Aniline 011. Our Works Emager reported regarding these drums as follows:

"These soven drums are rejected on account of the deep yellow color of the distillate, which spoils the final product."

He followed the precedent in shipping them back without awaiting further instructions.

We are very much disturbed to have that it. Mileon fools that we are chipping these back without proper reason and in order to avoid our contract obligations. Some time ago in. Mendowerest told the writter that he came to the city periodically and avoid call upon him. Unfortunately he has not done so. We sincerely regret Mr. Mileon's time of the contract of the co

We would be most pleased to have a representative call at our factory and let Dr. Schaefor, our Joris Imager, desonstrate to his the unsuitability of the rejocted deliveries and the difference between the present shipments and those sent at the beginning of the contract, which were entirely satisfactory.

Yours very truly,

HEW YORK QUINING AND CHEMICAL WORKS

DLCE/HL

Sovel McKesse -

The Purchasing ined Witnesservery) about Sauce 12. Near Ur Mosaw. Just a few telesco about four (4) weeks afor I ordered the the stone copy. 10 some of a coustie and this / has not anned Duro (2) weeks ago I ordered a car of strow oil the the channel + no intice of Shipmut how as your amued - Buford the adount of the. I ecutarial service departitues Thomas a Ecusion, Parkonal," & go Is is vary evident that the above deportunt does not realiza That it takes wor thou form + conversation to Su a Buyot plant - If it had not hew for the fact thor the Combia Daught. had a stock of caustic on hand we would have been tree up a week ago - The same thing is going to hoppon in The mater of straw are, if

a few days - I am sura This is not les Madowerofts faut as he has always been most persupot and obligging - another teling are locke lives ( not combine ) but local supply houses are not getting their money on time - I than a statement of one account (Swar Hour a) when the bire was 4 mos are due, This Show of not be, with local people, when we want to deal in a mui four 'as to Pay Pour This is, as usual, two days overduresome was part - as you know this is many among - I wan The man long hours + I hate live the duce to more them was for this money I have Sporain so often about this but this been to mi, like a small thing to correct -He are getting along may musely will the Hofe The + expect to how is runny to-night Harry - Bacon

June Sart, 1916.

Carbolic

Solar: Fire Insur noe : t & roolic cid Sivicion.

ir. E.Hank. seretary.

telephones in the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of the true of true

That he had a stock of finished product valued at approximately 76,000 and a stock of raw neterial valued at approximately 95,000.

This his inventional longer chosen little onelprease to be worth approximately 18 C. (1.6). The masshor's at tool that he was noting over the online matter on the order to be one proposed at the contempt of the prometrial time, but if the little of the contempt of the prometrial time, but if the little contempt of the prometrial time, but if the contempt of the character of little contempts of the character of little character of little character of little characters.

or bout 250 year. In farmed a 1 coeff out 75 definition to guess on the ordinant, and further a 1 to end out 75 definition they will continue to above the fainthey will continue to above the fainthey product 1 thought at the proposit they we to continue to see the fainth of the proposition of 100 year.

1 telephoned depend, evens in hillion posterday afternoon and requestes them to place this additional assaut.

For your information, I might say that at the properties owing to the number of fires we have had at our different plants this feer the insurance Companies do not sees to be over surface to insurance risks. (seese. (come / hillips hadded to the to to place this Additional insurance, and they paid the -:)-

This espartment having not been avised by the derbolic held Sivinion of the increase in stock and equipment proven once more that the Tivision's are not co-operating with this Department in regard to fire so-operation with this severaged in regard to fire incurrace, as they should do in order to properly erotect in Missel incoronte. Ender date of J m lath 1916. Hunel 1 Recutive's scorer mass services to count to every Division langer to other with the Under date of Jan 20 form on which they were to report to this reportment form on which they were to report to their reportment prouptly the v leation of their bulldiams, configura-and inventory. The percent we of response you all remember were extremely until and under date of subgroup 2nd, 1916 this Department issues reply to the fore mentioned memory news, requesting that Divisions take issolicte action. butd semonandum did not brine such bottor results and when talking it over with you you will, probably reasonber that it was assided to let the satter rest at that this on account of all two Divisions being bucy closing their books for the In a cordence with your instrummions of estorday afternoon today I am writing nother comprandum on this mame embject which I trust will bring the decired rosalts.

.c. Alda

Insurance .e.vice Perartment.

F.G. :

nottify .on.

C.C. Hosers. J.B.No bert, Chas. Edicon, C.A. Alleon, h. A. Hosedower off and h. Zamsor off.

June 26th. 1916.

Western Fur Dressing & Dyeing Works, 266 State Street, St. Paul, Minn.

Gontlomon:

We have received your favor of the 19th instant, enclosing contract for 100 pounds of Paraphonylanedismine per month fro June to December, 1916 at \$5.75 per yound. Please accept our taumke therefor. Enclosed you will find copy of the contract signed by Mr. Edison.

as you stated in your letter that you are greatly in need of Faraphenylenodiamine, so have forwarded to pounds by oxpress, and trust that it will be estimatery that we have sent it by express rather than by freight.

to will formerd to you too eligments of 50 pounds overy month, one shipment at the beginning of the month, and one say, in the third week of the month. How will that cuit you?

Yours very truly,

Edison Laboratory.

Enclosuro.

Er. Edison:

I examined this mill cometime age at your directions and made verbal report to you. The Fuller Hill is an old type and of course is worn in all parts. The mill is in practically the same condition as the five we had at the coment plant and could be set up and operated in its present conditions, and would pulvorise. The chaft and bearings are worn and pusher slowe is exceeded, but we continuously operated them in this condition. The mill is of an obsolete type and I would not recommend it for a permanent installation for undoubtedly there are several types of more efficient mills in the market. I believe Mr. Hudson has decided to put in a Markings mill which is a type of tube mill and I believe will be more efficient than this old type Fuller Mill.

MASON.





New York,

June 26, 1916

anile

Mr. Whomas A. Edison,

Orango, i.....

Door Sir:

We are in receipt of your letter of June 24th. Our Dr. George L. Scheefer will call up probably tenerow and act for ir. Readowerest, in order to make an appointment to see you anyoget. The writer himself would have been glad to take advantage or tide opportunity of meeting you, but tile is prevented by ill health and he impose that he may have the pleasure at some future time.

Yours very truly,

HET YOUR QUILLEY MOD CHRISCAL TOTALS

Honol M. Slead

Dischi/Hit

June 27th. 1916.

Mr. John Bacon, Jr., ; Edison Benzol Plant, Johnstown, Pa.

Door Sir:

the lines chewed me proteoring your letter chout the strew oil and countic code. I can very corry for the delay I ordered both the cuntic code on the tirew oil immediately on receipt of your letter calling for seem. I can teld that the caustic code was shipped from Silver Lake on June lette and hould be in your hands now.

I am just this memont in receipt of your telegram statistics that you have had no notice of the uniquent of the car of after all the car of a class of the car of the

Yours very truly.

Assistant to Mr. Edison.

T. A. Edison, Bengol Plant Cor. The M. Con dow west ices to the Eccion. ic un Lir inclosing an want for 100 brune Tolard superiols - If you conting · hipping . Dolerol in Chiuns Turns on hand of in you thing we will not hard the testray the ardes We shall certainly you upprove , will you please

#### [ATTACHMENT/ENCLOSURE]

### T. A. Edigon, Bengol Blant

Junch weing agent Green Abboratories,
Crange & S.

Veror Sir:
Thinky even for our account
the oldowing
The B. Script & Sons Co.,
Tillsburgh Ca.,
I car load "13 gauge shewe.
(James as befor evene)

James Bacow for hope.

Johnstown, Pa., June 27, 1916.

Dear Mr. Mason:

We started changing #H Huzel yesterday and will get it finished by to-morrow morring. # 2 is a woucer, we made yesterday 826 - so and for Fuz hours last night the steam was low, or we will have so then 900 goes. It works fine no pressure, and the oil goes through as fast as we can pump; it. Nothing to it?

I have given an order to the Rmg Dept, for a small tank to take care of the Acid tar, 36" x5', this will be placed near the wanher to drain the tar into and from there (while it is still hot) blow it with air to Cambria's reclaiming tank -- This takes care of the tar, the caustic they are going to let go into the drain.

Their present idea is to build a small reservoir to catch this drain water and use it for quenching the coke, of course, this is all Cambria's expense. The pay roll has not arrived yet, 6 days late. To save myself a lot of embarrassment I dug up \$450. to pay the men.

This is a rotten deal. I could not get any more from Cambria so am doing all this sork myself. I have put on two extra men until this is finished. We have a good deal of work on hand. I want to put in two extra coolers, (we have of pipe work in content have the da new tubes put in) and a lot of pipe work in commercion with the Hapithaline tank and acid tar tank.

let me know how you are progressing as to having them cast so I can plan to receive and place them.

Yours truly, /s/ Bacon.

Notation:

Harry Miller: Let Eacon have capital enough ahead for one payroll, this will stop this trouble.

Me Microse House have seen some some seed of the contract of t

## AMERICAN OIL & SUPPLY CO.

#### OILS, GREASES, ACIDS, CHEMICALS AND DYESTUFFS

92 WILLIAM STREET New York City

HOME OFFICE: NEWARK, N. J.

June 27, 1916.

Mr. J. L. Meadoweroft, Edison Laboratories, Orange, N. J.

Doar Sir:-

We have sent to the following a letter, as per the attached copy, which is self-explanatory. This was done at the request of Er. Hoffmann.

The Bayer Co.,

The Heller & Herz Co.,

H.A. Metz & Co.,

W. Beckers Amiliae & Chemical Works, Inc., Schoolkopf Amiliae & Chemical Works, Inc.,

Heidich Process Co..

Hemingway & Co. Inc..

Standard Anilino Products, Inc.

The file and the manufacture of the Yours very truly,

How it is a see to get of the get of the mater showing the control of the get

### [ATTACHMENT/ENCLOSURE]

June 26, 1916.

The Bayer Co., Albany, N.Y.

Gontlemen:-

We will have for delivery beginning about August lot Benzideze in the form of Free Base, Sulphate and Hydro-Chlorate.

We will be very pleased to have you advice whether you are interested in these materials, and if so, whether you would care to enter into a contract for either of them for a specified amount menthly ever a peried of six menths or a war.

If you will advice us that you are interested, we will be very glad to submit our proposition to you. Thanking you in advance for your courtesy,

> Yours very truly, ALERICAN OIL & SUPPLY CO.

ABJ:CH.

June 28, 1916. Auctive

MEMORANDINI TO HR. EDISON.
LABORATORY.

Dear Sir:-

At the beginning of operation of the Amilian Plant, it had been our practice to pay the operatives for an 6 hour day, 30 cents per hour, the foremen of operations, 40 cents per hour, and general foremen 40; cents per hour.

As now men were employed to take the place of near who had been in the certain work found necessary in the mill, the men who had been in the service longer did not reliah seeding the new hands being employed at the same rate per hour as they were receiving, and requested no to grant them an increase. This was denied, and we adopted the plan whom ongoing now help to pay than 25 cts. per hour, and an they became preficient they were increased to 30% cts. per hour, and in they been preficient they were increased to 30% cts. per hour, and if they merited it, they were afterwards given a further increase to 30 cents per hour. The conditions of labor are, and have been, such that it because necessary in many cases to make those increases follow closely upon each other, in order to retain the hole them concerns.

A potition was presented to us, signed by approximately all the mea of the Amilian Plant, demanding an increment in vages to the extent of 35 cents per hour. This was refused, and they connected to remain at their work at 30 cents per hour, having confidence in uc to continue the amployment of new men in the method I have above described.

This memorandum is hunded you because the question is about to be missed as to the reason for our givin; such regid increases, and your approval of the plan we have followed, indicated hereon, will be very much approximately

Yours very truly.

P. C. CHRISTENSEN.

CORV

DR. H. SCHWEITZER, 410 RIVERSIDE DRIVE. Bay willing shout this The More York, June 28th. 1916. - fakin -

Dear Mr. Meadoweroft:

I went over the figures submitted to me by Mr. Christensen and that they are all theoretically right.

By careful testing with red litmus paper he might save some Soda when making the combination with Phenol.

Salt he will surely save if he allows the combination liquid to stand over night as we have talked it over.

He will probably also use less sine dust if he carries out the experiment we thought might lead to this favorable end. I hope that nothing but success will crown your efforst. I am going away tomorrow over the holiday and hope to be back in New York Saturday of next week.

Heanwhile I should like you to submit to Mr. Edison my idea concerning phonographic records.

Many users of Mr. Edison's machine and myself think that the orchestra which he uses is very, very poor, much poorer than those of his competitors.

Now I have a riend who has, as is generally considered, the best openestra in the City, namely, Mr. Hethan Franko. He plays at the most elegant functions of our richest society and also in some hotels. During the summer he is not much engaged and I em sure that Mr. Edison might come to terms with him. Mr. Franko is in my opinion one of the greatest violin players and I am sure that his soles would surpass those of Spalding of Mr. Edison's records. Mr. Franko is spending his summer in Long Beach and I would be very much pleased if I could bring him Mnd Mr. Edison together.

Can you do anything for me in this matter?

With kindest regards, I am,

Yours sincerely,

(signed) H. Schweitzer.

LOUIS LAZARID

DYESTUFFS - CHEMICALS 92 WILLIAM STREET

NEW YORK

June 29 th 1916.

Mr. Meadoweroft.

c/o Mr. Thos. A Mison.

Orange H. J. Ly dear Mr. Meadowcroft:

1/38 Cents lb freight

The fit is

high of government

Luminter Cos pricas of

Jewanter Cos pricas of

Jewanter Cos pricas of

Jewanter Cos pricas of Some time ago, you asked me for a quotation on

sistife of some I received a cablegram from my Lorion office quoting me \$255.00 per ton of 2240 pounds, f.o.b. French Port, subject to export licenses being granted, not cash against delivery.

I trust to be favored with your orders and in the meantime. I am

> Yours very truly Jacis Lugar

LD

Pars

ROBERT T. LOZIER ENGINEER

NEW YORK
June 29, 1916.

Mr. W. H. Meadawcroft, c/o Thomas A. Edison, Inc., Orange, N. J.

Dear Mr. Meadawcroft:

Mr. I. Brocher, Sales Manager of the Globe Chemical Company 202-204 Centre Street, New York, is interested in the following chemicals. Paraphenylenediamine, Benzidine, Aniline Oil, Aniline Salt, Dimethyl Aniline. Would you be good enough to advise me if you can supply these various chemicals, stating the quantities and prices respectively.

Awaiting with interest your reply, I am,

Pant Jom

RTL:RG

(9341)

Edison General File Series 1916. Chemicals (E-16-16) July

July 1st. 1916.

Hr. Mobert T. Lozier, 141 Broadway, Hew York City.

Door Mr. Losier:

implying to your favor of the Sath ultime, let we say that of the twister chemical that you meated no zero not making Bornaldine, or winesthyl until to o o ultime ill, to ure at precent maker an errangement with the marker not ill acceptly tomorry to take the excess over our contracts, and I think you touls find that they would make you a very reconcile conduction, as I happen to know that they are cults willing to impose of none of wheir about at a very close figure. This, hence, is between contractors.

precent time, and are unable to give quotations to the customers at the however, is contendant the justice of the addition to this plant within the next for mocket, in which case we can'll anyo more to dispose of . I am unable, becaver, to my english definite chout this gives at the commant, because it all himse on the question whether we shall be able to set upmertuse unickly.

our contract requirements, and at this time we are in position to supply you thit from 1 to 800 rounds on Minty short notice. Our write on this is \$4.00 per yound, and it sakes that allow you a commission of \$85, or pound.

Yours very truly,

assistant to Mr. Edison.

de montre est la les montre de la les montres de

In my report of conjects in add that at that time our three boilers were operated to their capacity, and that it would aminly depend on the steam consumption in the Anillius Division, if and how mind the load would decrease during the summer months. For your internation I beg to give you hereafter data from our records up to and including the month of June;

| Month |           | Total consumption of<br>coal in pounds | Consumption of Goal for 1 day,<br>according to daily report.<br>Founds |  |
|-------|-----------|--|--|--|
| 1915  | Hay       | 870,020                                | 33,440   |  |
| н     | June      | 1,114,170                              | 48,260   |  |
| 11    | July      | 1,003,960                              | 41,420   |  |
| "     | August    | 982,060                                | 36,700   |  |
| 13    | September | 1,056,200                              | 45,600   |  |
|       | October   | 1,700,485                              | 72,100   |  |
| 0     | November  | 2,154,086                              | 91,800   |  |
| п     | December  | 2,295,142                              | 94,850   |  |
| 1916  | January   | 2,507,291                              | 95,760   |  |
| п     | February  | 2,846,700                              | 110,960  |  |
| n     | liarch    | 3,224,760                              | 125,780  |  |
|       | April     | 2,527,640                              | 108,360  |  |
| u     | liny      | 2,524,670                              | 100,080  |  |
| "     | June      | 2,792,538                              | 109,080.   |  |

These figures prove that, although no steam to used at present for heating purposes, the total consumption of coal in June was almost as high as in Pobruary, and not much lower than in Liarch, the latter being the month) with the highest coal consumption so far. Several months ago I asked the Aniline Division, as well as the Edison Chemical Lorks, to let me know the figures of their steam consumption which in all probability will take place in the future. They are obviously not in position yet to state their domand. The Edison Chemical Works are talking of about 100-horse power increase, whilst the Aniline Division could not give any figure whatever. I feel, however, that I ought to bring this question to your attention as early as possible, so that you can doctde at the proper time if, and to what extent, the boiler glant ought to be enlarged.

It seems to be quite sure that with the present outfit we would not be able to keep the plants in operation to their full extent during the coming winter. We must also not forgot that the two older beliers, which are in operation since January, 1916, ought to have been elemend during this summer. We have so far had no trouble with the tubes, but would have to shut down part of the plants in case a repair of some kind would be required, as we have no boiler in reserve.

Provided that the plants shall be kept in operation as at present during the winter months, we ought to have one more boiler for the growing consumption of steam and, if possible, a second new boiler for the cake of safety and reserve.

Lately the question of smoke from our three belief stacks has come up again. That effect the varying load on the belief has in regard to the smoke was clearly soon yesterday. The coal consumption falling off to over 70,000 pounds per 24 hours, the smoke from the stacks almost disappeared completely. I hear to-day from lir. Limen that you gave permission to try hard coal instead of soft coal. This probably will better the conditions as far as the smoke is concerned, but I do not know how far the efficiency of the belief will be affected.



# American Oil & Supply Co.

## Oils, Greases, Acids, Chemicals

52-54-56 Lamyette Street Newark, N.J. July 3rd, 1916.

Mr. T. A. Edison,

Orange, N. J.

Mr. W. H. Mendowcroft.

Dear Sir:-

The third and last lot of Oil of Myrbane is being returned by the Monsanto Chemical Works, St. Louis, No. It has been impossible to suit those people.

These ten drume were returned June 25rd from St. Louis consigned to American Oil & Supply Co., care of T. A. Edison, Silver Lake, N. J., in N.Y.C.& H.R. cer #118346.

We enclose copy of B/L together with their freight bill for \$75.60 outgoing freight which we must in turn allow to them.

Will you kindly see that when these goods arrive they are credited to our account. We have charged them up to you and formal invoice will go forward under separate cover.

We are not going to try to please these people further as our experience with them has been very unsatisfactory.

Yours very truly,

American Cil & Supply Co.,

A Secretary.

o line

July 5th. 1916.

Elyria Enameled Products Company, Elyria, Uhio.

Gentlemen:

1 cm writing in the hope that you may have eaught up fairly well with your orders, and tant you might be able to furnish a still of about 1.6 gallone capacity within a short time.

West encouragement can you offer?
Yours very truly,

P.S. Please mark your reply for attention of Mr. Mendomoroft.

borbolic

July 5th. 1916.

American Uil & Supply to., 52 Lafayette Street, Howark, H. J.

Gontlemen:

I am writing now in rogard to the adjustment of deliveries of thenel as between No. 1 and No. 2 Plants.

Under our contract arrangements with you we are to amply you with give pounds of shonol per day. This has usually boom delivered from No. 2 Plant. When we started the bottling business, however, we found it was decirable from our manufacturing stampoint o have the bottle Phenol put up at No. 1 Plant. We will, therefore, adjust the matter each month by deducting from the summed delivered to you from No. 2 Plant the quantith that has been bottled and shipped during the month by No. 1 Plant.

At this writing the shipments stand as follows: No. 1 Plant shipped to you in June a total of 4440 pounds of Phonol in bottles. A For the sake of making casy delivery in standard packages, let us call this 4600 pounds.

No. 2 Pinn. Of this debot on out of alivering 4500 pounds from 2500. 2 Pinn. Of this debot we omitted one dept's delivery, namonly, 2500 pounds, one day at the latter end of last month, and to complete the adjustment we will deliver to you towerrow from No. 2 Pinnt only 500 pounds, inctend of 2500 pounds, thus making a total omission in billing from No. 2 Pinnt only out of 4500 pounds.

Trusting this will be satisfactory to you, I remain,

Yours very truly,

Assistant to Ar. Edison.

Ja Cuo?



E.I.DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE

PURCHASING DEPARTMENT

7452

July 5, 1916 OUR FILE "WJRH"

Thomas A. Edison, Orange, N. J.

Gentlemen:

Attention of Mr. Meadowcrof.

Referring to your letter of the let inst. with regard to the shipment of c. p. tolued to us in tank cars instead of drums="for the present terms, at least, we have no objection to your shipping in tank cars, provided of course, that you furnish the car, as we have at this time no tank cars suitable for the transportation of water-white c. p. material except those which are required for handling the production of our Refineries.

You state that you are producing somewhat more than 120 gallone per day at Johnstown, but do not indicate how much. As your last shipment to us was made on June 19th, presumably you will be able to load an 8,000 gallon tank car by the midule of August, or there about.

Will you kindly advise whether you desire to move this material, for the time being, in tank cars, and what is your approximate production per day at the present time.

Vound many truly

Anni Atanti Purchasing

WJRH\* ARJ.

### [ATTACHMENT/ENCLOSURE]

Mr. hars added are nears affecuent appointed to accor nedec - mulation of peroquaring 144 gals son day where The Contract was made we are averaging alcout 200. Our Contract butter you Caccerfor 120 que per day more or lear ent 140 g.co per day after Jan, 11# 19/4 more or less bearly the looks la Colorate a The Tolder Since we wie produce Merz Man 108 expected 102 are at low fult how to act bles should like to

## [ATTACHMENT/ENCLOSURE]

Contract, or must be day
to you los we have
to a per day
the condo a per day
the condo according
to condition to end according
the condo according
to you we would like you
to dodde this mutter as soon
as persective so we can be
peed to och the Exercise

Carberin

Silver Lake, K. J., July 6th. 1916.

Mr. W. H. Mendowerort:

Subject: PRODUCTION OF P. PHENOL

Referring to our telephone conversation of yesterday, I beg to submit hereafter a record of our monthly and daily production, beginning Earch, 1915, and closing with June, 1916.

| Month     | No. of days | No. of working | Production | Production per |          |
|-----------|-------------|----------------|------------|----------------|----------|
| 2.011011  | in month    | days in month  | total      | day of         | working  |
|           |             |                | in lbs.    | month          | day      |
| 1915      |             |                |            |                |          |
| March     | 31          | 31             | 115,109    | 3,393,5        | 3,393.5  |
| April     | 30          | 30             | 94.889     | 3,162,9        | 3,162,9  |
| liny      | 31          | 31             | 108,217    | 3,490.9        | 3,490.9  |
| June      | 30          | 30             | 122,126    | 4.070.8        | 4.070.8  |
| July      | 31          | 31             | 131.577    | 4.244.4        | 4.244.4  |
| August    | 31          | 31             | 140,737    | 4.539.9        | 4,539.9  |
| September | 30          | 29             | 137.866    | 4.595.5        | 4.923.7  |
| October   | 31          | 31             | 165,822    | 5.349.         | 5.349.   |
| November  | 30          | 27             | 199.977    | 6.665.9        | 7,406.5  |
| December  | 31          | 22             | 170,030    | 5.484.8        | 7.739.5  |
| 1916      |             |                |            |                |          |
| Jamary    | 31          | 23             | 162,729    | 5.249.3        | 7.075.17 |
| Fobruary  | 29          | 24             | 160,293    | 5.527.3        | 5.678.8  |
| March     | 31          | 27             | 172,132    | 5.552.6        | 6.375.2  |
| April     | 30          | 21             | 173,739    | 5.791.3        | 8,273,28 |
| Liev      | 31          | 26             | 194,032    | 6.259.         | 7.462.7  |
| June      | 30          | 23             | 185,646    | 6.188.         | 8.071.5. |

The shower record shows that up to October, 1916, we ware workting every dgy in the month, i.e., wook-day as well as Danday, with the exception of September, when we lost two days ording to Labou trouble. From Evernter, 1916, on our fact 100 Hz has been seen to the control of the control of the control of the control of the control of the control of the traffic on the realized assumed a cortain lack of row material. Geography of this year on no shandards from the Control of the Cherofree, from Journay of this year on no shandards from the Control of the control

a few days, we could dispose of all the rew material coming in, and I tried as far as possible to keep our daily production corresponding to the cupply of rew material. It is readily to be seen from our daily reports with reading to the cupply of rew corry atternoon, that during a masker of day in when we have rever yet the company that the cupply in the contract of the cupply of remarkable of the material; in fact, if we had not about deem, when our stock of rew material two lew, we would have he do shut down a ...

We record down, furthermore, that by dividing the total yearded ton year mouth by the regarding day, we reach an arreng delly production of more than 0,000 100. Downoughently, we 'ill be in position to raise our mouthly production county to 10,000 100. and higher at countries the incoming was material allows such higher production, and value of the countries of

Fin april of feece.

1.1

N. W. PHONE RODUE 431



ray

266 STATE STREET

ST. PAUL, MINN.,...

July 6th.

9541

Laboratory of Thomas K.Edison, Orange, N.J.

Attention Mr. Meadowcroft:-

Dear Sirs:-

Your favor of June 28th. at hand and contents noted. In regard to shipments, will say that it will suit us fine to have two shipments of 50 pounds each every month, one shipment at the beginning of the month and one in the third week. We prefer to have the dye shipped by express.

The last 50 pounds of Fur dye we received from you does not work out as well as the first dye received, it seems to be burnt up with Ammonia.

Kindly let us know how to use this dye so we can get good results.

An early reply will be appreciated, we remain,

Yours very truly, western fur pressing & DYFING WORKS.

of Selection,

Cattle Address Mitsui, N.Y.

MINISTUL & CO. LIMITED (Mitsui Bussan Kaisha/Ltd.)

Telephone 10010 Madison Square

Carolie

TOKIO YOROHAMA YOKOSUKA KOBE NAGASAKI MOJI NAGOYA KUCHINOTZU NIIGATA TSURUGA

MILKE WAKAMATSU KARATSU KURE KISHIMA SASESO MAIZURU AWOMORI MIYAKO

OTARU SAPPORO TAIDEN TAINAN CANTON HONG KONG SHANGHAL NEWCHWANG CHOSHUN HARDIN VLADIVOSTOR DALNY TIELING CHEFGO HANKOW SWATOW AMOY TSINGTAU PEKING

MOUNDEN SEOUL CHEMULPO KWANGHINTU BANGKOK RANGOON SOURABAIA SYDNEY

LONDON HAMBURG LYON DALLAS SAN FRANCISCO PORTLAND MANILA BOMBAY SINGAPORE

25 Aladison Avenue; July 6, 19/6.

Thomas A. Edison, Inc., Orange, N. J.

Attention of Mr. Y. H. Meadowcroft.

Gentlemen:-

Kindly allow me to introduce to you my personal friends, Captain H. Uyemura and Mr. H. Ichikawa, who are in charge of the purchase of Automobile Trucks for the Japanese Arsenal.

They wish to be favored with the privilege of seeing your Storage Battery Plant, and 1 \*\*\*\*
a personal favor if you will kindly give them such privilegy.

Yours very faithfully,

July 7th. 1916.

Mr. Douling:

I on writing this special monorandum in regard to amilino wil for the liew York suthino and Chemical Jorks, that I went to ask that you will please give it your special attontion and instruct all your poople to act strictly in accordance thorowith.

The contract with the how York minine and Chemical Works is a large one, and we shall have to be very careful in our efforts to carry it out, as they will return subline wil to us on the clichtost pretexts.

Br. Edison himself spent nearly a whole efternoon tith r. schooler the chemist of the how York winthe and Chemical orice, together with his directionen, and between them they arrived at a back on which the until no 41 will be secontad.

I cont you instructions a day or the use to this four drune, 1862, 1866, 1866 and 1865 to the Bow York window and Chemical works, Eastern Edition Committed Brooklyn, ... 2. 1 procume these have been shipped to them accordingly.

How in regard to further supplies, will you ploses note the following very carefully:

1. Er. Christenson understands just what aniline oil will be acceptable. when he has one or more drums that fulfill the conditions, he will notify you and give you the number or numbers of the drum or drume, and will clee furnich you with a cample bottle or bottles from those drume.

2. These cample bottles should be chisped, sufely packed, to New York unine and Chemical works, North 11th and Born etc., to now sorr unnine and themiced worse, how'th link and born, the Brooklyn, a. ., for attention of in. whenfor: The same day that the bottlee are shipped by convene properly, you chould drop a line to ar. whenfor notifying his of the chipment of examine and exacting that unice we have from him to the convergy within alvo days the Grame will be onlyped.

S. Hr. Christoneon will try to got out the New York winine and Chemical works' anithmo wil an early as goosthic in the month so that we may make oach worth's shipment within the month.

Unless we set strictly in accordance with these instructions, ar. Edicon is going to suffer pocuniary loce, and as he is wetching thic matter very actively himself, I would suggest that you give it strict and close perconal supervision.

W. H. MEADOWCROFT.

July 7th, 1916.

Or. M. Rommorhoff, Carbolic acid Division T. A. Edison, Inc.

Door Sir:

In conversation with Er. Malson yesterday he maked to be savise you to order one (1) more \$60-5.7°, 8.0°, shiller at once, and to design your believ-house so that in unlarging it it will be expedie of halding two believe.

I would magnet that you get in no ministen for this ballor of comes, on I understand the member in growth well ever-sold, and there may be some trouble in acting gauge delivery.

I would also suggest that in designing she boiler, the cain supports in the front of suce should be so situated that if it was necessary we could install a classe.

The question of stellars in now up with ir. Battern and we are uptime questions, and it is not at all improbable that we may add stellars an all believe in your plant, in order to do many with the black scales which we have at present.

#. H. M/SOH.

Chemicals nuce intracted in the manufacturing Lyb water by Electrolysis. Kindly addis x hour y lour on a consurrede per So. Can you refer ner 10hr noto to day Cirutific works on Mis Susticular Suysel "who is him a position to many my Track as avor Invitica Thank you in advanty Uceorare.



## THE ELYRIA ENAMELED PRODUCTS COMPANY

GLASS ENAMELED APPARATUS

OFFICERS ARRY S. CALVERT, PRESIDENT H. E. GRAY, VICE PRESENT P. JONES, TREASUREN H. TYLER, SECRETARY ACID AND ALKALI RESISTANT

ELYRIA, OHIO July 7, 1916.

Thomas A. Faison. Orange, H. J.

Dear Sir:

Attention Fr. Leadoveroft

We have now favor of the state, concerning fa-gallon fell and would say that we could likely give ou estimate on practically any settl apparatus within six to seven weaks from receipt or order and possibly might as a little bit better than this time tand the meterial for the application in whoch is stated in which the meterial for the special process.

We have sent copy of your letter to aur r. John O'R White, 50 Church Street, Hew York, who would be glad to make an appointment with you to see just that you need.

Very truly yours,

THE PLYSIA STAILED

proc/Lini

FILTER PRESSES HYDRAULIC PRESSES AND SPECIAL MACHINE OXY-HYDROGEN ELECTROLYZERS es A. Edison Inc Phenol Division, Orange, H. J.

Gentlemen: --Last year we sold the DuPont Hitrate Commany of Wilmington.

Delaware several filter presses which were shipped to one of have any buperd South American Plants.

They write us that they hard encountered some difficulty in the presses satisfactory operating the presses satisfactorily and they think the trouble is largely due to the pumps used in forcing the slimes to the filters which pumps may not be the most satisfactory type for handling this material. did not supply the pumps.

The following is an excerpt from their letter:

"We think it might be to our great advantage here to observe suverell of the complete installations of your filters, pumps and all - in actual operation and would accordingly request that you kindly advise us of the names and loantions of several establishments where these filters shight be viewed at work."

Would you be willing to have their representative visit your plant and see our filter presses in operation? If it would not be agreeable to you, do not hesitate to say so.

An early reply would be appreciated as their representative leaves for South America in a few days.

Yours very truly.

REP/W

T. SHRIVER & CO

Mr Markoveroft Down Mr Educion approved EASTMAN KODAK COMPANY

guly 7,1916.

(9454)

Dear Mr. Meadowcroft.

As we have several proposals before us on Paramidophenol, we are quite anxious to know how your plans, concerning the manufacture of this chemical are progressing. It would be our preference to do business with you on Paramidophenol and we are therefore, quite interested in knowing how soon you expect to have the finished product ready for the market; what quantities it can be offered in and what the price will be.

Yours truly.

Mr. W.H.Meadowcroft, Laboratory of Thomas A. Edison, Orange, N.J.

ADDRESS REPLY TO PURCHASING DEPARTMENT

## STEIN, HIRSH & COMPANY

61 BROADWAY

STARCH DEXTRINE ALBUMEN TAPIDGA SAGO CHEMICALS

NEWYORK,

July 8, 1916.

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:

In accordance with our conversation with Mr. Meadoworest we are returning to you the carbolic Acid received from you constitue ago which we have been holding in our warehouse. We have had complaints from time to time from different directions and have lost plaints from time to time from different diversions become over the considerable business because our transfer of the considerable business because our transfer out the continually folling us that the quality time of the continually folling us that the total continually folling us that the continual transfer of the continual tra

Notwithstanding all the complaints of the past we have AUTHINISTRUCING ALL THE COMPLIANTS OF THE PAST WE have repeatedly inhelisted with the trade that your carbolic was standard in this market. It is unfortunate for us that we have taken this stand because we now find that all of our statements have been adulated because the actual deliveries as received from you have been neghere mass standard quality.

The above quantity we have ordered shipped to Silver Lake as per your instructions and we shall ship further to-day 68 small cans which we don't dare to send out for lear of further trouble and expense.

We are extremely sorry that when Mr. Mason examined this Carbolic sometime ago that he did not make a more coreful examination. The writer will endeavor to arrange a meeting with Mr. Dalec and other nations in the near future and talk you to please active whother nack wednesday or Thursday would be agreeable.

LS/G

July loth. 1916.

boulevolice

#### Or. Memmorhoff:

this memorandum is proposed for you to how the chiments of terbelic to be need from your slamt. I'm electroling this memorandum with my two memorands on the error embloot, addressed to you and duted maril 4th and June 15th. 1916. respectively.

Unloss there are further orders later on, you will place supply thenel as Tollows:

- ionting Aronal. 8,417 jounds overy 50 days until April, 1917. Arico 566 per pound.
- 2. United states news, 15,002 pounds per month until saril, 1917. rico 60 or nound.
- Copy (including markeys) with further notice. The co would
- 4. Lit ut company contract calls for 55,050 ounds a month for the months of optil, any, ound no only, 1016. I is not take two calls their cate for duly, at I kno that you have calpred the mote for the provious three mouthe. The rates in 76d per count, with a rebute of 6d per pound, to per instructions in my provious memoranes.
- 5. Mitoni & Company. his contract calls for 18,780 pounds of Carbolic acid a month from Lay to account or 18, not possible of the bolic acid a month from Lay to account or 184 per possible the price is 764 per possible, 18h rebute of 184 per possible the cordence with provious instructions.
- Mitchi . Com only . mother contract for 25,000 pounds each month from July to Leccabor, 1916, including at 77 1/24 per sound. In robate in this case. 6. Bitoni . Com ony.
- 7. J. L. otking Codical Company, Jinom., Minn., 500 pounds for month from Julia to Accorder, 1916, price Old for yound.
- 8. J. M. Mathine Redical con any, change, Ann., additional contract for 4.0 counte per mouth from dunc to Recember, 1916, price 600 por nound.
- 9. J. .. satisfine section tomorny, Not fork 61ty, 100 pounds a month feminary to section, 1916, inclusive, price 654 per gound.
- 10. Stroom-Reuter S Reneock, Inc., Chicago, Ill., 200 gounds per routh from Junuary to Recember, 1916, Inclusive. Frice 864 per nound .

H. H. MADO GROPS.

N. W. PHONE ROBE 431

Parl

# Wishing Dry Dressing Adving Works

ST. PAUL, MINN. July 10th. 191 6

(9541)

Laboratory of Thomas A.Edison, Orange, N.J.

Attention Mr. Meadowcroft:-

Dear Sir:-

Have you any Fur Brown to offer either in small quantities or on contract? also quote us your best price on same.

Hoping to have a favorable reply, we remain,

Yours very truly, WESTERN FUR DRESSING & DYEING WORKS.

101. Their

Juns

July 11th. 1916.

Amorican Can Company, 447 ..est 14t. Street, how York City.

Gontlemon:

thin and poor givenising on the short to you shot the supplied a target consisting on the short from same of thich you supplied a target constitute to the state of the target constitute to the same state of the lact state of the lacty of the short you shall be supplied to the same state of the lacty of the shall be seen to be shall be stated in the same state of the sam

to the up as Corbolic and interference. Then you consider that I am adding your like out of the structure of you consider that I am adding your like you can like you consider that I am adding you will no what this is likely to seen, or I am anying a grout deal of him material returned to moon eccurate of the creeking out of the galvanising. This leaves the iron in touch with the Carbolic meld, which becomes utalized thereby.

This needs instant attention on your part.

Yours very truly,

BOSTÓN PHILADELPHIA PROVIDENCE TROY CHICAGO CH

STEIN, HIRSH & COMPANY

NEWYORK, July 1916, 1916.

Convolic

Mr. Thomas A. Edison,

Orange, N.J.

Dear Sir:-

Owing to some disarrangements in the Heyden factory and in accordance with our contract, we ask you herewith to please discontinue shipments of Phenol to Heyden until they are in a position to resume operations in their Salicylic plant.

Fery truly yours,

LS-SF

the should continue the day of the Ace Hallow of the the work of the Same provided to the standard of the standard of the same of the same provided the same of th

July 12th. 1916.

Dr. Smery:

In accordance with Mr. Edison's instructions I am giving you below a copy of Mr. Christoneon's schedule of daily requirements of materials for the menufacture of Para Amido Fhonol. This schedule is as follows:

Hitrito of Soda, 225 pounds por day.
Anilino 011, 264 pounds por day.
Phenol, 264 pounds por day.
Soda a8h, 300 pounds por day.
Solt, 100 pounds por day.
Ico. 0,000 - 60 (200) men por day.
HIT anil, 400 (200) pounds por day.
Soda Okasiki 760 (500 pounds por day.
Zino hart 450 pounds por day.

The above schedule embraces natorials for an output of 300 pounds of Pera Amido Flemol per day.

... H. MEADOWCROFT.

Dady -

300 lbs Culput Paramolophen CARROLIC ACID DIVISION.

Wingey the Martill, Silver Late, 11. J. July 12th, 1916.

Mr. Thomas A. Edison.

Subject:

ARRANGEMENT FOR 9-0-2 FURES

Adde of the motor from our being choice, we have radialy to deal with faces of 80-g gra energing, when we are noticellating our Thomasate. I understand that it is important that stops be taken to not rid of these tames as far as possible, and be, to subsit the obtached blue grints, lies. Ca-68-4 and Ca-68-4 rer your approval.

BRAINE SEA PARKET: The cohome is to excet a modern touce, a ft. square by 40 ft. 125; the secont complete of the lumin from our four montrollising tends by may of a weeken pape to which a blower (driven by electric motor), it consected. The weeken pape and touch would be overeded outside by weeking price.

The material meeded for this school is as follows:

1 No. 6 Buffalo Forgo Co. Blower. (In stock).

1 Wg H-P Motor, 1050 R.P.M., with Startor. (In stock).

15 ft. S-inch Bolting (In stock)

1500 Sq. Pt. H. C. Shin Lap.

50 lengths 4-in. z 4-in. z 16-ft. Yellow Pino.

50 " 2 " x 4 " x 16 ft. "

3 Shoots Galvanized No. 16 36" x 96". (In Stock).

8 Rolls of 2-ply Roofing Paper.

10 Bogs Coment. ( In Stock).

1 Cu. Ft. Sand (In Stock)

2 Cu. Yds. Stone (In Stock).

Shoot No. 2.

Mr/ Thomas A. Edison.

July 12th, 1916.

DATUS JOSEPH: While the larger mount of 30-2 cases will be taken easy by the clove mentioned bloom; there recent 30-2 cases which are carried off with the dedim adphite solution into the brook, examing blooms Are, to which brook or plant to connected by an iron pipe. Before this solution receives adjust two, it is carried around our tillitings so as to empose it for while to the open dar, to the ten emme to Markers from the S0-2. As this notion seems to be dependently, it thinks to could receive the colution at locate of man of the gra by wounding it in our your in a pit of it, doop by 4 rt. again; as soon in around "OA-S0-A. The solution is forced by means of a pipe to the bottom of the pit, and I argeed that by the motion of the vater in the pit the gra will be not from, and can be taken easy by a second bloom which inveces the S0-2 into creative tener 2 cost

high.

'who raterial meeded for this caranagement is as follows:

1 %7 %-9 "oter, 1080 M.P.H., with Starter.

16 ft. 3" Selting (In Stock).

500 Sg. Pt. of H. G. Phip Lep.

10 longths of 4" x 4" x 16" Yellow Pimo.

25 Shoots or rugsted Shoot Iron \$24, 0 ft. long.

5 Shoots Galvenised Shoot Iron \$24, 0 ft. long.

5 Shoots Galvenised \$16 56" x 96". (In Stock).

10 Dags of Coment (In Stock).

1 Opbin Year of Shoot Can (In Stock).

2 " " Stock (In Stock).

1 presume that the 10-2 grasses from the wooden towers 40 foot from the surface will be carried away in much a diluted form that the medificational (12) and be accepted by 10. In the task the present these, the 80-g Jan, preservably under bed tending conditions, them much hemistry to in the sir, but a tendency to energy along to the autrope, and is then, a course, coming detected.

if the suggestion mosts with your approval I could start on it right may.

E. Haffapar.

Emol. 2 Blue Prints Nos. CA-52-A and CA-54-A.

CARBOLIC ACID DIVISION.

165)

Silver Lake, II. J.,

lir. Thomas A. Edison,

Subject: NIVELC CAME FOR PERFEALIZING OF PHENOLATE.

The are using Hitris Cake now for neutralizing of Phenolate almost exclusively. Daring the moght of June we used for this purpose partly Hitris cake and partly Sulphuric jeid, and it is, therefore, not possible at present to make a report on this question depending on a longer period. However, I think it essential to give you seem data at this time before you decide on larger centracts for one per the other kind of you external.

We not with difficulties by uning Mitric Cake for the neutralization of Fherelate instead of Sulphuric Acid, which I first thought would be overcome after we get more familiar with it. The disadvantages arising from the consumption of Mitric Cake, that still remain and do not seem to disappear, are serious enough to draw your attention to:

During the process of neutralizing the littric Cake develops some and which is not heavy enough to separate and rull to the bottom of the Culphite solution which later (note the sever. The mud sticks to the Grude Phonol, absorbs a contain part of it, and it is hard to separate the mud from the Grude Phonol readily.

Then the Hitric Coho solution is added to the Phonolate solution, not the sees heat is generated as is the case when Sulphuric Acid is used. Consequently, the solution consisting of Fhonolate and Hitric Cake has a tendency to thicken, and the Crude Fhencel then will not separate. If more heat is applied, for instance, by adding steam or hot water, some less of Fhonol is easily created by tee much heat.

The account of water used with Litric Cate is considerably higher than with Sulphuric Acid. The total volume of one of our standard batches, there we missing first its of Phonolate, is about 6000 liters, if we use Sulphuric Acid, against about 10000 liters if we use iltric Cabe. The additional amount of water involves some loss of Phonol.

Owing to the heavy dirt which sottles out at the bottom from the Mitric Cate, the process of drawing the Phenolate off is quite difficult, compared with the same process when Sulphuric Acid is used. To experience that alternately Grade Phenol and Water is drawn off, whilst with the 
Sulphuric Acid this never occurs, and we have not been able so far to provent 
this trouble.

If the direct cost of Mitric Cabe -- about 2.5% por pound of Phenol -- against Sulpharic Acid -- about 4.5% per pound of Phenol -- is compared, there seems to be a saving of 2% per lb. of Phenol by using Mitric Cabe. This figure is true as long as a pound of Sulpharic Acid is used 90% costs 1.6%, and as long as about three pounds of Sulpharic Acid is used per one pound of P. Phenol. This saving of 2%, however, disappears if the Mitric Cabe cases a loss of Grude Phenol, and this is taking place so far. Some times the Mitric Cabe has caused far greater lesses, and if we do not succeed in climinating the difficulty, it would appear that it is cheaper to use Sulpharic Acid for the neutralizing process, even if the price per pound of Vitrici should be somewish higher than 1.5%.

We are going to produce secondariates P. Phonol than during the last months as long as I do not find a way to improve the situation with the Mitric Cake, and will report to you at once when the conditions better.

II. KALLERHOFF.

### ABLE ADDRESS/STEINHIRSH\* NEW YORK STEIN, HIRSH & COMPANY

lawolic Java SISAL

SI BROADWAY

NewYork, July 12, 1916.

Meadoroft

Mr. Thomas A. Salson.
Orange, N.J.

Dear Sir:

We have your letter of the tracking the tracking the way of the salson that the salson of the s

which we are returning to your fund the w le gut black leave

We discussed the matter with Mr. Meadowproft over the phone and he gave us permission to return the shipment.

We wish to state that these shipments have been in our possession since we received same. They have never been opened by possession since we received sume. They have never even even opened by anyone in our employ. Ar. mason examined some of the drams but not all of them. Those of which we shipped to Perth Amboy were not out of our possession as they were at the railroad dook and the sampling was done in the presence of our representative at the time. The sample was drawn from one of your drums which had not been opened before.

It seems to us that there has been a great laxity in your manufacturing department and we are very sorry indeed to be compelled to tell you this but the facts bear out our criticism.

We request you therefore to take in the two lots and examine same and you will find that they have not been exposed by us to the air but have been kept in proper storage which your own representative can substantiate.

We have a number of letters from various good customers of ours on the quality of the Carbolic which we sent them from time to time of your production and in each of these letters complaint has been made as to the quality.

It seems to us that you fail to appreciate that mistakes can we believe that when you fully consider happen even in your plant. the facts above given you will reconsider your action and examine the goods when they come in.

Mr. Thomas A. Edison/#2

We have never had any intention of taking advantage of you or sayone las want the seems to us considering the treatment which me have accorded you heat year where we made a loss of an enormous meaning from the taking advantage of anyone and sertially not of you.

If the drums of Carbolic had left our possession at any time it might be a different story but as stated above we have been at all times in possession of these drums and the sample drawn was drawn under our supervision when the goods reached Perth Amboy.

It was a great misfortune to us that the carbolic in question should have been poor because it meant a large order had we been able to deliver the proper goods.

We trust you will reconsider the matter and let us hear from you at once.

Yours very truly,

LS/G



6a Lolie 58 (9540) July 12, 1916.

EXECUTIVE OFFICE

Thos. A. Edison, Inc., Orango, New Jorsey.

Gentlemen: -

#### Attention Mr. Wm. H. Meadowcraft.

In pursuance of yesterday's conversation, we are returning by Eric Railroad the 40 drums of rejected carbolic acid. Upon receipt of bills of lading, we will ask you to kindly hand us your check for the value of these returned goods.

We understand that you are to ship us at once 1 of your large 110 gallon galvanized drums of carbolic acid, which we are to tost and report on to you with a view of accertaining whether those galvanized drums will eliminate the difficulties experienced heretefore on account of the containers darkening the acid. This drum of acid is to be billed to up at 55% per pound.

We have, up to the present, used nething but the Edison acid and would very much like to feel that we can entirely roly upon you as our source of supply for this product. We must, however, be in a position to compete in the market on an article of this nature, as you will readily appreciate, and should future conditions bring about a drop in the market price, we would want to feel that you will protect us by reducing your price correspondingly. Failing to do this, of course, we will have to buy our supplies where they can be most advantageously obtained. We trust that you will see your way clear to follow the market of several would far prefer to continue our connections with your own good selves and market only the Edison acid.

We understand that in future you will ship via Wright and Cobb (Boat and Transportation Line) from Howark, which we understand

has a station at the other end in Brooklyn, from which we can truck direct to the laboratories, thus eliminating all delay in receipt of shipments. We are very glad that this method has been settled upon as it should entirely eliminate the difficulty that we have experienced in the past through delayed shipments.

I wish to assure you or my appreciation of the fair spirit that has been so clearly shown in the handling of this situation and also to assure you of our absolute confidence that all those difficulties can be easily eliminated in the future with some attention and with great mutual satisfaction.

Vory truly yo

CHP: K

. ...

PRINCIPAL OFFICE COMPANY
PRINCIPAL OFFICE
SCHENECTADY, N. Y.

In Reply Refer to

Cambria

Schenectady, s.Y. ouly 12th, 1916.

Mr. W.H.Meadowcroit, Seciy Thomas N. Edison Laboratory, Urange, n.J.

Dear Mr. Meadoworost: -

In response to your letter or the both inst., will say that I have just seen Dr. Whitney, the Director of our Research Laboratory in the matter of He told me that your letter about same nad Cumerone. been duly received, but that as he did not know or any purchase of the material by the General Electric Company, So he had passed your letter on to our Testing Laboratory, Furchasing Dep't, etc. and thought that it had been properly attended to. He regrets that no reply was sent to Mr. Edison but thinks that your letter may still be circulating around among our departments in the different Works or the Company in order to rind out where the Cumerone is used and for what it is employed, the person who incormed you that we were buying the residue or the napthas from the Cambria Steel Company's Benzol plant may be able to give you more speciaic information as to which of the works of the General Electric Company is using it.

It is pretty certain that it cannot be used in Schenectady Works, at least not under

#### GENERAL ELECTRIC COMPANY

the name of <u>Oumerone</u>, or Dr. Whitney and our Purchasing Dep't would know something about it.

With kind regards and best

wishes, i remain

sours very truly,

11. C. e recereus

CONSULTING ENGINEERING DEP'T

WSA:BDR.

EXECUTIVE OFFICE

July 13, 1916.

Orango, Hew Jorsey.

Gentlemen: -

Attention Hr. Vm. H. Meadowcraft. We will shortly require about 10,000 callons of Ben-

sol for a special process in conjunction with the purification tain drurs. The Bennol must be absolutely C. P. as we intend to use as a solvent. It occurred to me that as you must have large contracts, we might be able to either buy from you direct or through you obtain an advantagoous quotation, the Bennol to be delivered at our plant in carload lots, either in tank cars or in barrels, is preferable, at our siding at New Brunswick, H. J., Raritan River Railroad. If you could make us a quotation would figure on delivery in carload lots at New Brunswick, E. J. on our own siding.

Assuring you of our appreciation of anything you may be able to do for us in this matter, we beg to

Gengol we can get from our good plants of Contract,
Jhe puret Bengol was accepted.

Jhe puret Bengol was acc

ben bing

July 14th. 1916.

Mr. John Bacon, Jr., Edison Benzol Plant, Johnstown, Pa.

Loar Mr. Bacon:

in. Edison learned from in. Essen that you had stated that the Carbin Stool Company were selling the residue from their Selvent Reputs to the General Rectric Company, and that they were using it for obtaining the Cumerone centents.

find out the factor would lie you to inventigate quietly und pany is colling their residue to the General injective Company, you might fill out which plant it is shipped to, or the General Electric Company have quite a number of plants.

Yours very truly,

assistant to Mr. Edison.

Enclosuro.

Western Fur Dressing & Dyeing Works, 256 State Street, St. Paul. Mina.

Gentlomen:

Your fevor of the cirth instant was received, and we regret to learn that the last fifty pounds of Parephenylenedicmine did not work out guite as well as the first let received. We have brought this to the attention of our manufacturing plant, and have requested them to be very careful about mentedning our quality, which, up to it imme has been found quite uniform by a large number of fur dyers whom we have been supplying. There is no ammonia used in the process.

I am sorry that we cannot give you any formulae showing how to use the exceptonylenediamine. We have never made any experiments in dyoin ture, and really have no knowledge of the business oursolice.

How in regard to your inquiry of the 10th instant as to fur brown, let me say that we have just started our factory, and in about two weeks expect to have this material for delivery. Its proper name is Fara Amido Phenol. We have made errangements with the american 011 & Supply Company, 92 William Street, How York City to do all the distributing of Fara Amido Phenol. We have written them to quote you a price.

Yours very truly.

American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark, N.J.

July 14th, 1916.

Mr. Thos. A. Edison,

Orange, N. J. Dear Sir:-

Mr. W. H. Meadowcroft.

Will you please enter our order for 750 lbs. of Pera Amido Phenol, Hydrochlorate. This is for the Eastman Kodak Co., and we have been given to understand that shipment will be ready for delivery not later than August First.

Kindly send it to us at the earliest possible moment and we will forward from here.

Yours sincerely,

American Oil & Supply Co.,

CRB/T

AMERICAN CAN COMPANY

Atlantic District

447 West Founteenth Street

New York

July 14th, 1916.

Contotie

Thomas A. Edison, Orange, N. J.

SISTANT DISTRICT SALES MANAGER

ATT. MR. MEADOWCROFT.

Dear Sir:-

C. MACFARLANE

We duly received your letter of the 11th inst., about Galvanized Iron Drums for Carbolic Acid. We referred the letter to Mr. Pholan, our Newark, N. J. Sales Manager and sactory Superintendent, with request that he take up the matter personally with Mr. Meadoworts. We are confident that together you can determine what will be entirely satisfactory for your requirements in this line.

Yours very truly

OM/OL

Albert Chisons Sein Hork

Trom the Laboratory Thomas A. Edison.

Crange, N.J. July 14, 1916.

Messrs. Stein, Hirsh & Co., 61 Broadway, New York City.

Cantlemen:

I have received your letter deted July 11, 1916 in which you request that "in accordance with our contract" I discontinue shipments of phenol to Heyden. I am unable to understand this request as you do not offer any explanation as to why the shipments should be discontinued, nor for how long, nor how you reconcile your request with the provisions of the contract.

Will you kindly inform me upon this points without delay and greatly oblige.

loant go sang on lien. Yours very truly,

yours of 11th july at hand -WE have a very limited Capacity for storage x con you state how long wen well have to clare the Candolic? -18c Z

July 15th. 1916.

Mossrs. Stein, Hirsh & Company, 61 Broadway, New York City.

Gentlemen:

Your favor of the lith of July, 1916 at hand. We have a very limited correctly for storage. Can you state how long we will have to store the Carbolie?

Yours very truly,

July 5th. 1916.

H. R. Squibb & Cons.
78 Bookman - treet.
New York City. Attention of Mr. Polmer.

#### Gontlemen:

Your favor of the 18th instant in regard to Bensel has been received. I showed it to in. Edison, and he wishes me to inform you that we use all the lensel we can get from our plants and under other contracts which we have made.

The purpose Bonsol comes from the Milrouxoc Coke & Gas company, which is controlled by .a. Reads & Company, which is controlled by .a. Reads & Company, lacess & Cedar Stroats, How York City. Hr. Charence Dillon is the gentleman at Hesers. ..... holded & Company's, who has charge of Bonsol matters. . H. Edison is not mure, but thinks with those lower come Consol the Signature of ... he have a contract with those.

If you commot got any Bennel from them, and one compolled to buy from Burrott insumfacturing Company, and if the Boncol is not sufficiently pure, we have a still at our silver lake orks and could re-destill it for you. The expense is not great. Occasionally some of the Bennel or receive is so bed that we have to re-distill it for our com guarpoons.

Yours very truly,

Assistant to Mr. Edison.

July 17th. 1916.

Hon. George Utis Smith, Eircetor, Popertment of the Interior, United tates Geological Survey, Schhigton, . C.

Dear Gr. Smith:

I im sorry there has been such delay in furnishing you with the information in legard to Benzel, etc., made by the two Edison Benzel Flants. To have all been so overwholmingly busy that it has not been very well possible to furnish it before this time.

I take pleasure in hunding you herewith two cards in which the figures have been filled in relating to the products at Mr. Edison's Bonnel Plants at Johnstonn, Mr., and be what is decired.

Yours vory truly,

Assistant to Mr. Edison.

Enclosures.



Nocoward U.S.

Alniversity, Ala.,

Dear Sir:-

The United States Geological Survey and the Alabama Geological Survey are co-operating in collecting statistics of mineral production in Alabama. This co-operative arrangement has been made to avoid duplication of work by the operator, who heretofore has been requested to fill out similar blank forms for both surveys.

As in the past, the information received will be held confidential and published only in State and County totals. The output of individual operators will not be made known.

Very respectfully,

Me Edward we family to the Goologist.

#### DUPLICATE FOR YOUR FILES. DO NOT RETURN TO GEOLOGICAL SURVEY.

BY-PRODUCTS OBTAINED.

| DEPARTMENT OF THE INTERIOR   | BY-PRODUCTS OBTAINED.   |
|--|---|
| UNITED STATES GEOLOGICAL SURVEY  | (Value reported should be value at the works exclusive of selling expenses.  Value of product not sold should be estimated at average for product sold or upon estimated prices that might have been realized.) |
| PRODUCTION OF COKE AND BY-PRODUCTS   | Production. Value at works.   |
| IN BY-PRODUCT OVENS-1916.  | Ter   |
| Picuse fill out replies to the following overles and return as   | Ammonia: Pennis.<br>Sulpinate   |
| promptly as possible in the inclosed envelope, which requires no<br>postege. All replies are held confidential, individual figures not<br>being divided.   | Calicus.  |
| Name of operator Thomas a. Edison  | (or report as) Pounds.  |
| rosen Orange, n. j.  | NH2 Cutde Sect.   |
| Name of works Noodeward From Go  | Gas produced X X X X  |
| Location of works: Town Noodward   | Gas used in process X X X X   |
| State Alabama County   | Gas wasted X X X X X  |
|  | Surplus gas sold or used:   |
| Ber Ji, 1916  Kind of ovens in existence.  | (If possible, please state approximately the purpose for which the "surplus" gas was used and its value at the works.)  |
|  | Cable feet.   |
| Total number of orens in course of con-<br>struction December 31, 1914   | Huminating  |
| Kind of ovens building   | Domestic fuel   |
| Average number of ovens lidle entire year  | Industrial fuel   |
| Number of ovens dismantled or otherwise<br>permanently abundoned in 1915.  | Benzel products: Gallons,   |
| Net tons. Value at evens.  | Crude light oil   |
| Conf charged into overs:   | Secondary light oil   |
| Run of mine unwashed   | Bentol. 432.576 A.60+ \$259.545.60  |
| Run of mine washed   | Toluel 50.500 A \$2.11 110.030.00   |
| Stack unwasted   | Selvent naphtha 22,119 4 17" 3.760, 23  |
| Slack washed   | Naplathalenc & 308,983 # .02" 24,718.64   |
| Total charged \$   | Net tons.   |
| Does quantity of washed coal sepresent the weight before or after washing?   | Coke breeze   |
| f before, what is the average percentage of boss in washing?   | Total value of by-  |
| Not tens. Value at overs.  | products  |
| Oke produced   | Please give source of coal used:  |
|  | State Net tons  |
| Value reported should be value at the works exclusive of selling expenses.<br>Fig. 10 product not said should be estimated at average for product sold or<br>pan estimated prices that might have been realized. |   |
| pen estimated prices that might have been realized, [OVER.]  | Mass no court information on  |

THOMAS A. EDISON'S BENZOL PLANT AT WOODWARD IRON CO. WOODWARD, ALA.

BY - PRODUCTS OBTAINED

to December 31st, 1915.

Bensol obtained and sold, 129,959 at 60∮ = \$77,963.40.

Other products (exclusive of coke).

C. F. Tolucil 16,326 at \$2.18 = \$365,990.68

Selvent Hephtha, 5,761 at 25∮ = 1,440.25

Haphthaline, 37,959 pounds at 8∮ = 3,036.72

Total value of by-products......\$118.031.05

Please give name of coal used in ovens: Have no exact information on this point.

## Coolumne wetern Edina Juli 117 - : (1

In Edwarn It you are going to Stay in the Chimeal Sufgr at Solven Fra & think we should have a chemist then who can Experiment - figur + check vanous products arte quality &c Too much depends on the huster and he has too much to do to hough it Properly - I will also want Some one to help check moulto on Volash Experient - Losses on Phenol 4c - Backman well Lit Elias go if you can gon him another man ym lould never mund.

WHMason.

#### CARBOLIC ACID DIVISION.

Silver Lake, N. J., July 18th, 1916.

Mr. Thomas A. Edison.

Subject: CHAMBER ACID FOR HEUTRALIZING PROCESS.

Mr. Emery informs me over the telephone this morning that you want ue to use Chumber Acid for neutralizing Phenolate, and not Acid of 98%. The reason why I have caked for more 80% Chiphuric Acid, and not Chember Acid, is this:

the howe used in the months of threeh, April and May Chamber Acid which we received from the Aniline Division, the Chamber Acid being of chout 1600 specific gravity, corresponding with 75.71%, or 57.4° he'. One litter of this Chamber Acid contains 1225 grauss of He504, whilst Sulphuric Acid of 99%, or 60° he', or 1801 specific gravity, contains 1208 greens of He504, but there. We paid during the last mouths per pound or 99% Sulphuric Acid, as an average, 1.27%. Therefore, the Chamber Acid containing 32% loss He504 them the Sulphuric Acid or 99% sought to have cost 0.55% per pound, which means an extra expense of 0.64%, or 69% more than we should have poid. This being the situation, I was under the impression that it is more difficult to get Chamber Acid at present them Sulphuric Acid of 99%, and consequently I have asked the Purchasing Dept. to provide us with more 99% Sulphuric Acid, and act with Meacher Acid.

H. KALLERHAND

GENERAL ELECTRIC COMPANY PRINCIPAL OFFICE SCHENECTADY, N. Y.

in Reply Refer to

Cambria

Schenectady, F.Y., July 18th, 1916.

Mr. Thomas A. Edison, orange, E. J.

Dear Sir: -

In reply to your letter of June 8th relative to whether or not we are interested in Cumerone, would state that I have canvassed the various works in the company and find that we know of no place at present where this material is used or where it is likely to be used.

Very truly yours,

J. A. CAPP.

CHIEF OF THE TESTING LABORATORY,

J.a. Shiel

FAH/EHZ

M Edward To Bacon to Wited Stranger of their sold of the stranger of the stran

## HADJOPOULOS & SPERCO, INC.

GENERAL COMMISSION AGENTS

"HADJOPULOS", NEW YORK нестоя **каза** 6570 29 Broadway

NEW YORK

CORES USED
"WICGERS" BLITZ CODE, ISOB ED.
A.B.C.SI\*\* EDITION
LIEBER'S, J.K.ARMSBY CO'S.

Edison Company, Orange, ii.J. Gentlemen.

Mr. Markenson

For your valued address we are indebted to the Department of Commerce at Washington and we beg to state that we are interested in large quantities of

and other coal tar products.

Please let us have your prices fob steamer New York, stating quantities you can furnish and for what shipments.

We have done a very large business with the above items with other large concerns on this market.

Awaiting your early advices, we remain,

Yours very truly.

HADJOPOULOS & SPERCO, Inc.

DBH/CBD.



Muly 20th. 1916.

Mr. Edison:

Referring to the attached letter I think you will agree with me that these people are simply brokers and write around to everybody for prices on the various items they mention. This is the comeon to whom Mr. Hoffman sold that car of Haphthaline which went out to the Pacific Coast. As you will remember, we settled our differences with them by arbitration. They were in the right, as our stuff had turned yellow, so, of course, there should be no prejudice against them on that account.

If you authorize me to quote them, I would suggest Amiline Oil at 40f. Amiline Salt at 55f, Hephthaline at 9f and Carbolio Acid at 57f or 58f, all f. o. b. Silver Lake, except the Hephthaline which would be F. O. B. Woodward, Als.
MRADOWCHOFF.

it till

OK quote above

" Beware of the Greek atthough bearing gufts

Sampled + texted at works - so no after Claums -

4 MADENING PROPERTY Referring to your letter of May 20th, you mention Glycin as an article the Photographic people wish you to We are sending, under separate cover, samples We can make these in unlimited quantities, or, necessary, Glycine itself. Now that we are able to produce these articles would be pleased to get some information in regard to pheir use and where to sell same. Yours truly, Cheney Brother Mi Kelevier Comples Come yet.

The been necessary / JPC HB La allache

at Haydons w of Credit given on new thouas under the acident The Here & hence is to be double dividical MIP 39- WE to Levensch Stillwella 46 and -Contescente for Ench . ( af alux furemente strin a deplerate Sample - Heyden perpetus
of Stangling limites to to be subjected
which has been so the for other i Kine of Continuons to be have the credit given



Canadian Explosives, Lipstica

SUBJECT

(Wall, Vanada, July 28nd, 1916)

Thomas A. Edison Laboratory.

Orange, N.J.

Dear Sir:-

see Hoffman with put

Our File ON-12. In reply to your letter of

July 18th re 3000 gallons Toluol, we beg to advise that at the present time we are fully covered for our requirements, and are consequently not interested in your offer of above date.

Yours truly,

CANADIAN EXPLOSIVES LIMITED.

Chemical Division.

JBB/IA.

Merican di con la periodi de la periodica de la periodica de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi del la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi de la periodi del la periodi de la periodi de la periodi de la periodi de la periodi del la periodi della periodica della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodi della periodica della periodi della p KEITH CAR COMPANY PROPER GAN BUILDING CHICAGO Er. Thos. A. Edison, Orange, ii. J.

Dear Jir:-

Referring to Contract No. 111 which expires at the end of August 1916.

is this time is only about forty days away, we would be glad to know if you would like to use this car for another year. Owing to the advance in steel and other conditions concerning tank car operation, we are obliged to increase our rental to all can car operation, we are outline to increase our remeat of of our old customers, and the rental price for 5,000 gallon cars on a one year basis is \$40.00 per car per month, mileage teing credited to the lessee, repairs taken care of by owners.

As the fall contracts are now being made, we would be very glad to know if your business is such that you desire to continue the use of this car, or if you have decided to return it

However a grant to the town of the form of Yours truly,

Claudio Vidal

Calle Shideress "Yidalco" Telephones Broad 6846

Exporter; Importer, Commission Agent

23,8:25 Beaver Street

ARC MEdition

New York July 22nd, 1916.

Thos. A. Edison, Inc., Orange, N. J.

Gantlemen: -

I would be pleased to have you quote me your best price covering prime quality Amiline Oil, on contract, shipments from January to June 1917, quantity Five Thousand (5,000) Kilos, menthly.

Quotation should be on the basis of de-livery f.a.s. Steamer New York City, and a liberal sample of the oil you propose to furnish, should accompany the offer.

Thanking you in advance for a reply at your earliest convenience, I beg to remain,

Very truly yours,

CLAUDIO VIDAL PALL

Day that it is doubtful five will remain in business afriction. I will remain in business afriction. Ambien after Bee 31 = W2 however ban supply 10 coo lbs however ban supply 10 coo lbs noutty water Jaling 1917 routty water 38 dents

Western Union Siebers

Mr. Smory:

Your memorandum of the 22nd instant in regard to Johnstown and .oodward Plants has been received. ir. Edienn has authorized me to cond you copies of the contracts relating to those two plants.

The one covering the Johnstown Flant consists of a letter dated Jenuary 18th, 1915, addressed by ka. Edison to the Cumbria itsel Company, and accorded at the foot by thom.

The woodward contract consists of a regular agreement made between in. Edison and the Locdward Iron Company, dated larch 18, 1915. Mr. Edison has a pertner in the Locdward enterprise. This partner is intend & Company, Minited, and I also send you herewith copy of the agreement between that concern and Ir. Edison.

have no record of the contract obligations for rental, light, heat, power, water or steem. Er. H. F. Hiller and Er. Heen know the details about all these.

I ill not such one of the plants to cond you copies of thoir daily reports. We havehang Department will be interested only in the Bonrol, as the other Stofficts are disposed of from this office by me under Er. Edison's proposal directions.

As to beneal from the Johnstonn Blant, it is all chipped o salver Leke as a meter of course, as the plant belongs on its Plant personally and outbrilly. As one was the plant belongs to its Plant personally and the plant belongs to the plant belonging to the latest the plant belonging to the plant belonging to the same of the plant belonging the same of the plant belonging the meter of outper forduction until December Slet, 1916. Abordove, as a water of outper slate. The only exception is in regard to the 10,000 gellone which all joe to litent & Congany to replace on approximately similar quantity which so received from them as for weeds nog in present of her belong to the produce of the produce outperformed the produce of the produce outperformed the produce of the produce outperformed the produce of the produce outperformed the produce of the produce outperformed the produce of the produce of the produce outperformed the produce of the produce outperformed the produce of the produ

as to manufacturing schedule, it is very simple. They make all they can.

In regard to our requirements, this has been a settled matter for a long time past. Mr. Editor loased a number of cars for Bensel, and a certain number was put in cervice for each of the plants from which we get bensel. The experiences of the past year or men proven that we have about the right number of cars in service. I think that you will not need to change this in any way. The car arrangement has been working automatically and estificatorily for a long sime past.

### AMERICAN CAN COMPANY

M<sup>c</sup> Whorter & Johnson Sts.

NEWARK, N. J.

W. A. PHELAN LOCAL SALES MANAGER July 24th, 1916.

Thos. A. Edison, Inc., West Orange.

Edison, Inc.,

Drange.

M. J.

ATTENTION OF MR. MEADOWGROFF: to leave the structure of the front of the growth of

Gentlemen:

Drums made from Tin Plate. Those marked #1 and #2 are made from 28 gauge Tin

Plate, which is the same gauge as the material now used in the Galv. Iron Drums and the coating of same is what is known as Coke Surface.

The Drum marked #3 is made from 26 gauge Plate. which is heavier than the present Drums and is the same surface coating as those marked #1 and #2.

The one marked #4 is made from 26 gauge also, but is what is known as Charcoal Surface Coating. This is a heavier coating of Tin than on any of the others and is, of course, correspondingly more expensive.

We would like you to give these Drums a thorough test and see if any of them show signs of defects.

We intend making up some of the Galv. Iron Drums without swedges, and also with the seam grooved on the outside, so as to see if the oracking of the coating can be kept away from the inside of the package. These we will forward to the Silver Lake Plant the first opportunity that we get.

Yours very truly Thelaw Supt.

July 25th . 1916.

Chency Brothers, South Manchester, Conn.

Dentlemen:

Your favor of the 20th instant has been received by me, and I would say in reply that since my last letter we have installed and started a factory for making ware Amide Phonol. Theorefore, I do not expect to make Glycine. On receipt of the complet, we will try your Glycine derivatives and see if they are of value for photography.

I understand that i.r. Hondowerest wrote to you yesterday stating that the samples have not been received and asking you to send duplicates. Show he receives them he will bring them to my attention at once.

The Stendard unline & Products Company of Wappinger Falls, Her York make Beta Haphthol in large quantities, and, therefore, they must have a considerable quantity of Alpha Haphthol for sale. Bennaldehyde is now being made in quantity by the Standard E. 80.00 Company of Maywood, N. J.

Yours very truly, .

July 25, 1916.

m. Mars ord

Mr. A. Drew, Prontiont, Forest Hill Protective Association, 550 Parker St., Newark, N. J.

Doar Sir:

Replying to your favor of July 12th. We have agreed to creet a third absorbing tower of sufficient caracity to take care of all funce produced in the manufacture of setire material for the Edward actorace bettery. Enterials for this tower have been ordered and work on the tower will begin this week and we expect to have the sums finished and in operation within a very few weeks, modebily before outsider let.

As regards the automatic atoker and smoke consumer, it. Justs states that his promise was to install of them as automatic atoker or a smoke consumer. To perfect of fact, we have let the contract for cutomatic stakers and rebelieve we will have then in operation very considerably before the close of the four months period which we thought would be measurary. These cretary are designed to coke the coal before it reaches the prate and in a broad cense affet be considered as combined entenution stakers and make consumers. These others will cost us at least 10,000, which fact I hope will convince you of our sincerity when we state that we desire to most the wishos of your Association.

to have been burning hard coal mixed with an equal amount of soft coal for about a week and have already consumed 100 tone of hard coal but without any apparent beneficial result due to the fact that it has been necessary to force the furneces in order to get the came

7/25/16.

heat as before owing to the feet that the hard coal does not develop as much heat ordinarily as soft coal. We are expecting the non-smooting soft coal every day, and will begin using sume as soon as it arrives and believe we should be able to reduce the smoke now complained of.

Mr. Mason does not recall that we promised to abandon the settling tanks or sumps and the open ditch. To have, however, climinated from this datch everything enough pure vater used for cooling purposes and which contains no chemicals, and the use of the open settling tanks has been abandoned although it may be necessary to use them in an omergency in case the sever should becaus blocked. He is not quite sure what settling tanks way refer to.

Mr. Mason endorses your remarks with respect to the character of bonzel.

As regards IV. Edison's activities after the war, I do not recollect that IV. Edison stated definitely or positively that he would discontinue the manufacture of the chanicals which began during the war, but stated that he did not expect that he would be able to carry on this business after the war for expectable reasons.

To should be glad to have your "scaled committee continue to make imagestions of the plant from time to time to see what progress to being made in our endeavor to improve conditions. The only thing necessary is for you to communicate with Mr. Mason, provided, of course, the Committee consists of the same members as at the time of the first impaction.

Yours very truly.

July 26th. 1916.

Mr. Claudio Vidal, 23 Beaver Street, New York City.

Dear Sir:

Your favor of the 22nd instant has been received. In reply lot me say that it is comownat doubtful whether we will remain in the business of making aniline 0il after December Slat of this year. However, we are in a position at this writing to contract for the supply of 10,000 pounds of aniline 0il monthly until December Slat, 1916. I am in a position to enote you 38¢ per pound, P. O. B. Silver Lake, H. J., drums 30.00 extra.

This quotation is made subject to previous sale.

Yours very truly,

Edison Laboratory.

CRYSTAL HOSIERY MILLS Co.,

FINE SEAMLESS HOSIERY

YORK, PA.July 36, 1916.

Thomas A. Edison. Oranga, H. J.

JOHN M. GIVEN

Daur Sir:-

We wish you would kindly hold up shipments of Amiline oil for next worth and until we get in shape to take more of this phoduct in stock. We are loaded up now with several Jrums and we have no place to stock this, besides not having use for this assumt, one of our onstoners through whom we used to dge has gut in a glant and this outs we out with the was of Anilina wil. To us will bindly ust you to mith-hold shipmants during August.

Calle Address · Milsui, N.Y.

NAGASAKI

### MINISTUR&CO Induated

Alephone 10010. Undison Se

(Mitsui Bussan Kaisha, Ltd.) MIIKE OTABII DALNY TOKIO YOKOHAMA SAPPORO TIELING WARAMATSU KARATSU TAIPEH TIENTSIN VOKOSUKA KODE KURE TAINAN KISHIMA CANTON HANKOW

MOUKDEN CHEMULPO LYON ANTOHKEN PETROGRAD KWANCHINTH DALLAS SAN FRAN BANGHOK PORTLAND MANILA

BOMBAY

NAGOYA AWOMOR CHOSHUN NIIGATA HARRIN PEKING VLADIVOSTOR TSURUGA SUNAGAWA

HONG KONG

HEWCHWANG

25. Madison Avenue July 26, 19/6.

SOURADAIA

Mr. W. H. Meadowcroft, Thos. A. Edison Inc., Orange, N.J.

SASEBO

MAIZURU

MURORAN

Dear Mr. Meadowcroft:

Referring to our telephone conversation we

beg to give you the following facts:

Amount shipped to Heroules Powder Co. so far - 46,021.5 gals. The above means that we delivered them 120 gals.

AMOY

FOOCHOW

per day for 383-1/2 days beginning with June 35, 1915, or in other words, we delivered 120 gallons per day up to July 11, 1916.

The next tank car, or 8,160 gallons must be shipped from Woodward on September 17, 1916.

On the 31st of July we had 3,644 gals. C.P. Tolucl in tank at Woodward, and on the 25th of June when we shipped 8,095 gals. to Hercules there was left in the tank there 1,364 gale., and this means that between June 25th and July 31st the Woodward Plant produced only 3400 gals. which is at the rate of 92 gallons per day.

The best thing we can do now is to implore

you to send a copy of this letter of ours to Mr. Opdyke or Mr. Mason and let them ship to Mr. Edison the excess quantity above 8,160 gallons to be shipped on the 17th of September. However, you must also be careful about ascertaining from Mr. Opdyke or Mr. Meson if the Plant can produce 120 gals. per day from September 17th so that we will not fall down on the deliveryfor Hercules contract on the following tank car shipments.

Trusting that you will take the proper action after consulting with Mr. Opdyke on basis of the figures mentioned in this letter of ours, and with kind regards.

Very truly yours,

ST/KN.

We desire to apologize for the delay in replying to your favor of July 17th with reference to furnishing you bulbs of heat-resisting quality, capacity approximately 17 gallons, but it has been necessary for us to investigate this matter very thoroughly before giving you a definite answer.

The mould from which the original bulb was made has been destroyed. We are endeavoring to obtain all the necessary data as to the cost of new mould, cost of complete bulb and time of delivery. We will undoubtedly have this complete information by the first of the week at which time we hope to be able to write you fully.

Regretting the long delay, and trusting you are not being greatly inconvenienced by same, we remain

Very truly yours,

Sales Department, CORMING GLASS WORKS,

By S. B. Carry

AJM/H

1916. Chemicals

GENERAL ELECTRIC COMPANY
PRINCIPAL OFFICE
SCHENECTADY, N. Y.

July 27, 1916.

Carbolic

### Please make separate reply to this inquiry.

Thos. E. Edison Ho you mean Real Carbolic acid or what is Known, Dear Sirs: Kindly quote us by return be delivered F.O.B. Schenectady, II. Your 800 gallons Carbolic Acid 97 to 99%. the case of the former best wooden barrels and quotation on their f Schenectedy. Delivery required at destination: Oat 58 cents State what delivery you can make. Quotations to be complete should include net and cash discount in 15 days. Charges for packages will not be allowed unless mentioned in quotation and accepted by us, Yours truly, PURCHASING DEPARTMENT.

JRB:MEG

BUYER,

J. R. BOTMAN

PD-88-1 15m 3-6-16

July 29th. 1916.

General Electric Company, Schonectady, H. Y.

attention of th. J. h. Boyman.

Gontlemen:

Please make separate

Salline Osmonie

he delivered F.O.B.,

I cm in receipt of your request for quot tion on 800 gallons Carbolic Acid, liquid crude, straw color, 97 to 99%.

Do you mean real Carbolic Acid or that is known commorcially as "Carbolic Acid Aiquia", thi h is a mixture of Crocylic Acid This is cold by the Barrott Manufacturing Company at about 12# per pound. It is called Carbolic, but does not contain my real Carbolic Acid.

If you want the real Carbelle acid, or 1 and, crystals, but liquid when 65 water is added, so could furnish it as a colid crystalline mass at 684 ser pound, 7. 0. 3. Silver Lake, H. J., drume extra.

Yours very truly,

ir. Thomas A. Edison.

on. DESPITATION OF PRESIDE.

Silver Lake, H. J., July 28th, 1916.

Subject:

1.

2.

In compliance with your wishes, I went over to-day to see Mosare. Measure and polly, regarding the question of distilling P. Phonol of a high solidifying point.

After looking over the stills in Fhomol Plant No. 2, I think that with a few changes the method of distilling can be made just as satisfactory as we have it in our plant. The changes involve very little exponess, but will enable the operator to more closely watch the stills and be loss dependent on the varying conditions of steam pressure and vacuum pumps. I would suggest that the following items be taken in consideration, all of which, with the exception of the last one, I have talked over in detail with Mosers. Manon and Dally.

Simple moreury vacuum Compes (we have made then ourselves) should be installed in the neighborhood of the Phenel discharge pipe commetting the lattle with the condensor. Those gauges are dependable under all circumstances, and at the same time enable us to control the normal kind of gauges which are very otton out of order.

It is vory important that the relation between the temperature of the escepting Fhenel veners and the vacuum be determined and a tabula be made up according to which the operator has to operate his still. Whilst we are changing over from vacuum heads to P. Fhenel, for instance, at 125° c., if the vacuum is 25 inches, we emitch over at a vacuum of 25 inches when the thermometer is only 108° C. Phase relations are slightly different at different stills, and must, therefore, be determined in practical use.

Walling Co.

5.

3. The column pipe, carrying the Fhemel vapors to the condensor, chould be made three or four feet longer, so that the Fhemel vapors have a longer way in which to separate from water and inquirities.

42

 The condensing coils, which are now arranged in parallel, should be connected in series, as this will create a more uniform temperature and a better regulation.

All Phenol should be distilled twice, when we were distilling our Grade Phenol once only, we obtained without difficulty solidifying points up to 40.5, but the second distillation makes ourse that impurities are emitted, and that the solidifying point is solden below 40. Hereria impurities, it must not be forgetten that Grade Phenol without exception leaves quite some residue in the kettle, and that small particles of this residue are easily carried over to the receiving tank them suddenly the vacuum becomes higher, or the temperature rises with changing steam pressure. This danger of potting impurities into the F. Phenol is positively excluded if the once distilled Phenol is put into the kettle, as practically no residuo then will remain.

Omes in which P. Phonol is to be shipped should be scaled, i.e., soldered, immediately after they are filled. We have formerly closed our shipping cans temporarily by wooden plups, but did not find this safe in case the tree in the building gots leaking, or in case the cams are carelessly handled.

Under cortain circumstances a perfectly distilled batch of P. Phenol can be spoiled by getting water into it, as follows:

It sometimes happens that the vacuum pump gets out of order and loses its vacuum rapidly. The air, under atmospheric pressure, then enters the pump, whilst the receiving tank, being filled more or less with F. Fhonel, a still under vacuum. The result is that part of the water in the pump and

pages is suched back into the receiving tenk. To out this deman we are running our stills since over a year with a special trup, consisting of a 110-callon simple stool barrel. Whis trup is switched in between the Thomas receiving tank and vacuum pane. The trup taces care of such vactor as might be marked back in case of an accident as described above. Desides this, however, the trup cate as a catcher for those Thomas vacour, which otherwise are sucked over into the pump and got loot. To capty these trups normally once a week, and always find some Thomas In these.

I have also advised locars. Cases and pully to send their operator over to us and let him watch our men, on it depends to a large extent on the skill of the operator whether he works his still with the highest efficiency possible or not.

A.J.

### ANILINE DIVISION THOMAS A. EDISON SILVER LAKE, N. J.

UL,

Mr. Thomas A. Edison: -

Your note of the 26th expressing your willing ness to increase wages to increase output of Paraphenylendiamine has had our attention, as I adviced you verbally.

We are at present paying Para workers 25g, 27gg and 30g per hour. Your offer is to pay as follows:

> For production of 200# daily, \$3.00 per day " 250# " 3.50 " " 300# " 4.00 "

" 400# " As advised you verbally, on suggestion of Mr. Mason we have added one step to the above, which you approved, as follows:

For production of 350# daily, \$4.50 per day.

This schedule was put into force beginning at 7 a.m. July 26th. The production of Para, for the twenty-four hours ended 7.a.m. July 27th was 160#, and the production for twenty-four hows ending at 7 a.m. today was 188#, an increase of 28#. Our daily reports will show you production of this in future, and we shall all be a good deal interested to watch these quantities.

R. W. Kellow, ) A Acting Managor.

5.00 "

DAVID L. HERMAN, PREST

HERMAN & HERMAN, INC.

MANUFACTURERS AND JOBBERS

OF CHEMICALS

6 CHURCH STREET, NEW YORK

for th

Intermediates,
Colors and Chemicals
for the Textile and Photographic trades
and Chemical Manufacturers.

Re: Para-Amidophenol

Thos. A. Edison Co., Inc., West Orange, H. J. July 28 July 29 1916

Sulphur Black
Sulphur Brown
Hydrolene Grey
Indigo Substitute
Alizarine Black
Alizarine Colors

Direct Black
Direct Colors
Methylene Blue
Acid Red

Basic Green
Azo Yellow
Paraphenylenediamine

Para-amidophenol
(Amidol)
Butter Color
Dimethylaniline

Diamidophenol
Dinitrophenol
Dinitronaphthalene
Dinitrobenzol

Benzylacetate

Benzaldehyde

Benzylic Alcohol

Paranitraniline

Aniline Oil
Aniline Salt

Beta Napthol Alphanaphthylamine Toluidine Gentlemen:

We beg to advise you that we are now ready to deliver PARA-AMIDOPERMOL HYPROCHLORIDE PURE for photographic purposes. This is equal to the imported article with which you are familiar.

Our price to the film trade on this product is \$12.00 per pound, f.o.b. New York, in 100 pound lots or more. We will, however, take sample orders of five pounds at this price.

Hoping we may receive your order, we remain Yours very truly,

HERMAN & HERMAN INC.

President

DLH:EB

Oh! Ch.

h's HUTTOS

July 29th . 1916.

Choncy Brothere, South Manchester, Gonn. Contlemen:

attention of the J.P. Chency.

The complete of Glycine dydrochloride and clycine Exter were received and I gove them to our regular photographer, remeeting him to test the same. As used then exactly as Clycine is used, and made several special exposures which he tried to develop normally, also for half on order, also for three-markers of an hour and also exposed a plate to daylight, but the Clycine had no effect whatever upon the smalleion. There was a sign an any case that the challeion had over some in contact with an developing agent.

If you should wish to have any further experiments made in this direction, I shall be gled to have any other samples tried for you.

Yours very truly,

### [ATTACHMENT/ENCLOSURE]

9195) M det merson Mr Edicon Shotographically, camples of BB. Shedre Hydrockloride and BB Slycine Ester Hydrochloride given me by my meadowcrash and find after making several tests that the developed hasn't any action whatever on the selver Emulsion as far as a visible. Two plates duralo per normally one half hour The glasters of an hour as a Smal test & Exposed a emall flate to day light, holding it in my hand for about two mountes Developed the fitte for ten committee without any pigh whatever that it had Ever conte in contact with developing agent swin dueder ng/should be of a light gray What Siecard was white

CLASS OF SERVICE DESIRED

Fast Day Message

Day Letter

Night Message

Night Letter

Patrons sheets mark an X oppo-

### WESTERN UNION

CARLTON, PREMIDENT

Form 1705
Receiver's No.
Check
Time Filed

on back hereof, which are hereby agreed to

July 29th. 1916.

C. W. Markus.

OUR PARA ANTHO PHENOL PLANT IS WORKING AND WE HAVE
MADE TWO BATCHES INTENDED FOR YOU, BUT MR. EDISON WAS
NOT SATISFIED AND WOULD NOT LET TIEM GO. EXPECT ANOTHER
BATCH OUT LATE TONIGHT. WILL NOT LOSE A MOMENT IN
SHIPPEMOR.

W. H. MEADOWCROFT.

Sent Portal

### LOUIS LAZARD DYESTUFFS - CHEMICALS

92 WILLIAM STREET

NEW YORK

A.B.C.Code St. Edition TELEPHONE JOHN 2513

LONDON - ENGLAND 70 KING STREET HANCHESTER, ENG.

VIEUX - CONDÉ, FRANCE

Wed or Lout process

ir. Headowereft, c.o Mr. Thos. A Mison

Grande, H.J.

In dear Dr. Headewereft;

I bug to confirm by letter of July 20th and I commot tell, you how such it cameys my London office that your name appeared on my pacinges sent abroad.

They ask me to give them all assurance in case some of our customors abroad refer to you, you will give the matter to us.

They have been spending a great deal of time and north introducing your goods and they want, in the future, the benefit of it.

I do not doubt that we will agree on this natter and in

the meantime, remain

July 318t. 1916.

Mr. Edison:

We shall have to make some adjustment with Hollander on Paraphenglemediamine and Aniline Salt. They use 600 pounds of Paraphenylemediamine a week and two or three barrels of Aniline Salt a day. Our business with them has run up into high figures.

For a few weaks past our Exraphenylessalamine has been running quite point of quitty. It has been soft and full of mad and had a very companion of Mr. Hollander said that they could not stand that they companion of the theoretical that they companion of the theoretical that they companion of the theoretical that they companion of the theoretical that they companion of the they companied the theoretical the theoretical theoretical the theoretical theoretical theoretical theoretical theoretical theoretical theoretical theoretical through the theoretical through the through through the through through the through the through the through th

The Aniline Salthas also been poor, sometimes it has been dry and flakey as it should be, but at other times, it has been wet, and in smaller orystals.

Ohristensen knows about this, and went to look into the matter himself at their factory, and he is of the opinion that we should make some adjustment of the opinion that we should make some adjustment of the opinion of the kind will arise in the trouble has been due to neglect to his instructions by the men that he has been able to get.

Hollander thinks that we ought to make good at least 600 pounds of a teach foot pounds of a teach and the teach of the standard that were not only an absolute loss to him, but on the first pounds of re-dyesing the skins. He thinks he should need antitled to an allowance of 2600 pounds of antitle Sait. I know this is sortous, but so is his loss if he is tealing the truth and it looks as though he were from what Christensen said after he raturned from their plant.

They have never complained before, but they have been our best constenser for Faraphenylenediamine and infilms Salt, and they always pay that a secounts regularly. We have their standing order for 600 pounds of Faraphenylenediamine a week and three barrels of Salt per pounds of Faraphenylenediamine a week and three barrels of Salt per way. If you make an allowance I would suggest that we do not give it to them all at one time, but say bill them every other chipment until we have made up the adjustment.

Please give me your instructions.

MEADOWCROFT

Ok make the allowans but ask then to natify us unmarked by of anything

E. C. HUIPSTEIN, THEAS W. H. JACKSON, WEE PREST. A. KLIPSTEIN, PREST CODES USED A.B.C. ST. EDIT. CABLE ADDRESS: KLIPSTEIN NEWYORK ESTABLISHED 1872

AND TANNING MATERIALS. KLIPSTEIN & COMPANY, LIP HONTREAL, 12 STPERES

New York

July Slat, 1916.

The Edison Laboratory Orange, N.J.

Gent lemen:-

We have your favor of July 19th in re CARBOLIC ACID.

If you cannot offer Carbolic acid in such eq tainers as our friends inquire for, kindly let us sand what you can offer and e may be able to arrange has now our buyers to anners .... our buyers to accept your style of packing. be pleased to do business with you.

> Yours very truly A. KLIPS

Dt z-AH out 100 ft kin containers

### BENZIDINE PLANT

140

```
2895 4 - Caustic soda dissolving tanks (approx. 800 gals.)
          6'-0" x 4'-0" deep.
               Make at plant grid in top to lay 3 drums soda each.
   2077 1 - 1/2 ton chain hoist with 6" beam trolley
   2877 2 - 20 ft. 6" I beams - with connecting fish plate. ? 2879 1 - Pump to deliver caustic soda B.
   <u>B</u>
2882
          3 - Rednotion Pots B.P.C. -6483 with coils
          3 - Condenser coils - 0-6482
   2877
                 " tanks 4'-0" Dia. x 3 -6" deep cypress.
   2891
          3 - Stuffing Boxes - 0-6470
  2883
          3 - Bearing Stands - B-6204
   2883
           6 - 2" - 4 bolt Bearings - A & F Brown
   2883
          3 - 60" x 6" face steel pulleys - 2" bore - 100"
   2883
           3 - Thrust Bearing collars
   2884
In Stock 3 - Sets Bevel Gears - in stock - 0-6209
           3 - Verticle 2-3/4" shafts with Paddle -C-6485 ?
   2889
           3 - 2" Shafts (Horizontal) 4'-6" long 1/2 x 1/4 Key way one end. ?
   2894
   2890 20 ft. -2-15/16" line chaffing with hangers - Glen Ridge 2686- 3 - 18" " " friction Clutch Pulleys ?
           1 - 25 H.P. Motor .
                Drive pulley for line shaft? Speed.
    <u>: C</u>
2876
          2 - 8'-0" x 7'-0" high open tank steel C-6481
           2 - 2" sharting complete as per B. P. -C-6485
   2889
           1 - pair shaft couplings (Stirring) ?
   2894
    2883
           2 - 60" pulleys /
           2 - 4 bolt -2" bearings !
    2883
                18'-0" to 20'-0" - 2-15/16" line shafting with Hangers
    2890
           2 - 18" friction clutches !
   2886
           1 - 25 H.P. Motor
    2888
           1 - Pulley for line shaft.
    2879
           1 - Pump
  2948 2 - 2" Ball Thrust bearing collars?
2896 D 1 - 36" Filter Press
   _E
2885
           3 - Alcohol pots 7'-0" dia. x 6'6" high with coils
   2877
           2 - Condensing coils
           3 - Stuffing Boxes - 0-6470 !
```

2 - Condensing Tanks 4'-0" x 3'-6" deep

2883

2692

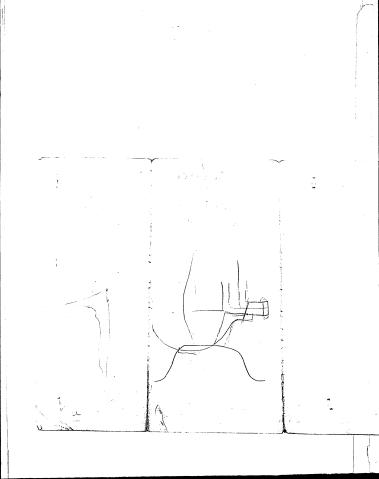
```
. . .
      E (continued)

√2883 3 - Bearing Stands B-6204 ?
                6 - 2" - 4 bolt bearings A. & F. Brown 7
       ¥2883
       2883 3 - 60" x 6" face Pressed Steel Pulleys 2" Bore ? /2884 3 - 2-3/4" Ball Thrust Collars ?
    In Stock 3 - Sets Bevel Genrs - O-6209
/2889 3 - Verticle 2-3/4" shafts with Paddles C-6485 }
       √2894
               3 - 2" Horizontal Shafts
      2890 24 ft. 2-15/16 line snaving have 2886 3 - 18" Friction Clutch Pulleys ?
                24 ft. 2-15/16 line shafting with Hangers Glen Ridge
               1 - Line Shaft Pulley?
      F Larger Condenser
       _G
2879
               Pump 4 x 4 x 6 From F. to G.
    On hand
               Filter Press 36" - on hand
               1 Sight Bottle ?
                 Hose & header for confining hot alcohol.
       2879
               Pump to cooler H. from G.
       _H One or two Tubular onlers. ?
2895 J Two 36" to 42" centrifuges to be enclosed.
2895 <u>K</u>
2897
              3 - 2000 gal. Storage Tanks
              1 - 4 x 4 x 6 Pump.
        L 1 - 1000# Scale - Platform type. ?
      2892
              2 - Wooden Tanks 10'-0" dia. x 6'-0" deep cypress
      2894
              2 - Verticle Shafts 2" x 11'8" long C-6485
      2894
              1 - Pair 2" Standard Comp. Flanges (stirring)?
2 - 60" Pulleys x 6" face - 2" Bore ?
      2883
              4 - 4 bolt 2" bearings
      2883
      2890
2099
              20 ft. -2-15/16" line shafting with Hangers.
              2 - 18" Friction Clutches /
1 - 25 H.P. Motor
      2888
              1 - Pulley for line shaft.
```

M\_ (continued)

2879 1 Pump 4 x 4 x 6 2998 2 - 2" Ball Thrust Collars.

289G N 1 Wood Filter Press ? .



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